Cassette Car Radio 22DC962/62B

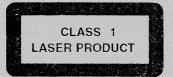


For repair instructions of the CD-Player see Service Manual CMX-200 Nr. 4822 725 24151 For repair instructions of the cassette-deck see Service Manual of SCA 2.5 Nr. 4822 725 23505

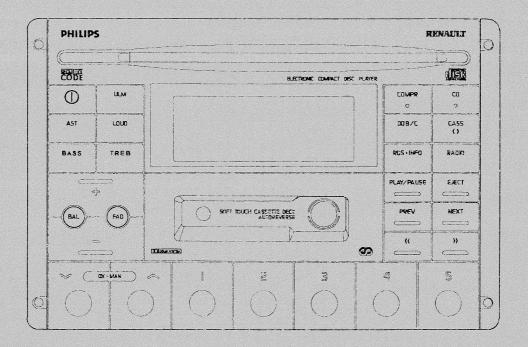
4 10 00,200 10 113 113 15



12 V → III







4822 725 24322

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Technical data:

Radio

FM 87.5 - 108 MHz , grid: 100KHz search, 50KHz manual MW 531 - 1611 KHz, grid: 9 KHz search, 1 KHz manual LW 144 - 288 KHz, grid. 1 KHz search, 1 KHz manual

IF AM 10.7 MHz IF FM 10.7 MHz

Cassette

Deck SCA2.5 Soft Autoreverse

2x2 tracks

Wow and Flutter < 0.3%

CD (DC982)

See specification of CD mechanism CMX200

Amplifier

Output power at D = 10%: 4 X 16W at 14.4V supply voltage

Equalizer +10/-10dB ± 2dB

Loudness 63Hz: 6dB -1/+2dB

1KHz: 0.5dB +2.5dB

10KHz: 4dB -2/+1dB

USE TOGETHER WITH REMOTE DISPLAY 22AP092/62T

ESD

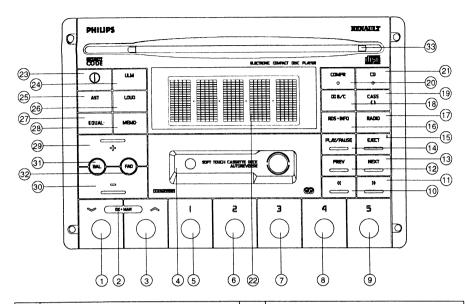


WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

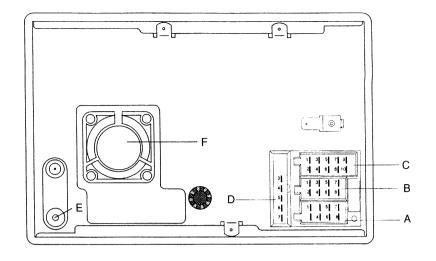
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

22DC962/62B



| 1 | SEARCH DOWN | 19 | CASSETTE REVERSE |
|--------|--------------------------|----|--------------------------|
| 2 | DX - MAN | 20 | COMPRESSION |
| 3 | SEARCH UP | 21 | CD MODE SELECTION |
| 4 | CASSETTE APERTURE + FLAP | 22 | DISPLAY |
| 5 to 9 | PRESETS | 23 | ON / OFF |
| 10 | FAST REWIND | 24 | BAND SELECTION |
| 11 | FAST FORWARD | 25 | AUTOSTORE |
| 12 | PREVIOUS | 26 | LOUDNESS |
| 13 | NEXT | 27 | EQUALIZER SELECTION |
| 14 | PLAY / PAUSE | 28 | MEMORISATION EQUALIZER |
| 15 | EJECT | 29 | VOLUME + |
| 16 | RDS . INFO | 30 | VOLUME - |
| 17 | RADIO MODE SELECTION | 31 | BALANCE SELECTION |
| 18 | DOLBY B - C | 32 | FADER SELECTION |
| | | 33 | CD APERTURE / CD IN PLUG |

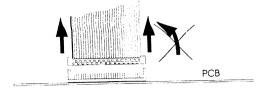
22DC962/62B 22DC982/62B



| A1 | Head phone box status | | СЗ | Mass | |
|----|-------------------------|-----------------------------|-----|------------------------|-------------------------------|
| A2 | Lighting | | C4 | Screening mass | |
| АЗ | Speach synthesis | <i>-</i> | C5 | ٦ | r c ROL |
| A4 | Permanent supply | TOR A | C6 | | SON |
| A5 | Aut aerial | CONNECTOR A | C7 | Remote control | CONNECTOR C REMOTE CONTROL |
| A6 | Controlled illumination | CONNECTOR A POWER SUPPLY | С8 | Hemote control | CO |
| Α7 | Supply | _ | C9 | | |
| A8 | Mass | | C10 | | |
| | | | | | |
| B1 | Rear right + | | D3 | Screening mass | |
| B2 | Rear right - | | D4 | Mass | OR D |
| ВЗ | Front right + | B RS | D5 | Interruption | CONNECTOR D REMOTE DISPLAY |
| B4 | Front right - | TOR | D6 | I ² C clock | NNO |
| B5 | Front left + | CONNECTOR B LOUDSPEAKERS | D7 | l ² C data | 0 38 |
| B6 | Front left - | S 5 | E | Aerial plug | |
| В7 | Rear left + | | | Actial plug | |
| В8 | Rear left - | | F | Fan assy | |

Servicing hints

Removing connectors



Fan test:

Pressing simultaneously DOLBY and LOUDNESS makes the fan running for 1 minute.

Repair

Display blinking three times when the set is switched on indicates a CD problem. Display blinking seven times when the set is switched on indicates a cassette problem.

Make sure that you are using remote display 22AP092/62<u>T</u> for testing the set after repair. If not,some features cannot be tested.

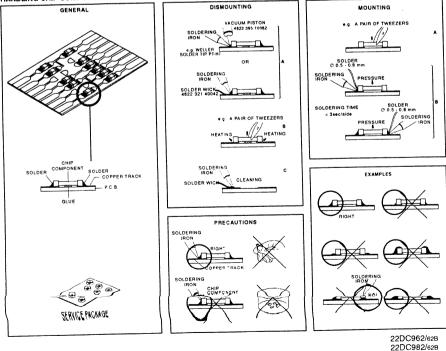
Be carefull not to wedge the wires of the fan in between the chassis and the PCB when remounting the micro PCB.

Be carefull, when remounting the front plate, that the LED's are in good position.

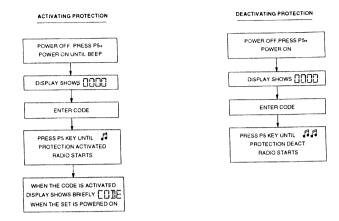
Do not forget to solder the mass between the chassis and the radio PCB when remounting it.

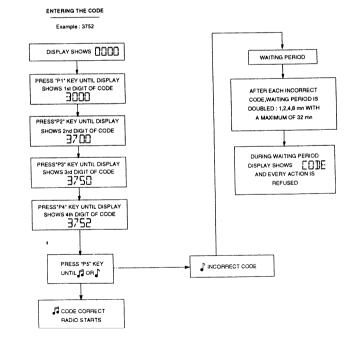
If the regulator item 4901 is to be changed, you must also check the 10Ω resistor item 3376.

HANDLING CHIP COMPONENTS



SECURITY CODE





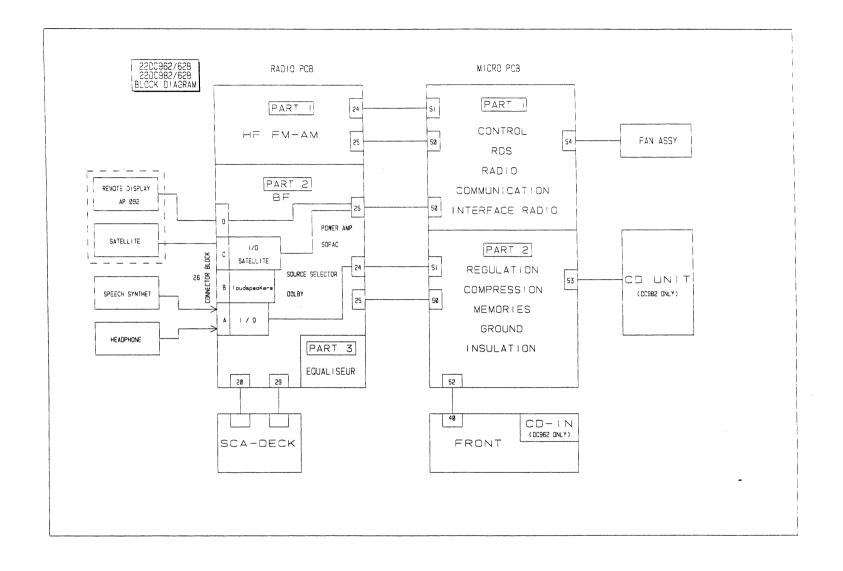
| Check | sĸ | ⊗ → | \Diamond | | Setting of controls | 0 0 | ··· |
|--------------------------|----|--|------------|----------|---------------------|------------------------|-----|
| Demodulated | | 93 MHz 1 mV Δf=22.5 KHz f mod = 1 KHz | | | | 1 200 mV ± 1 dB | |
| FM levels | FM | 93 MHz 1 mV Δf = 6.75 KHz f mod = 19 KHz | B | | | 1 50 mV ± 1 dB | |
| | | 93 MHz 1 mV Δf = 3.75 KHz f mod = 57 KHz | | | | 1 20 mV ± 1 dB | |
| Demodulated AM level | MW | 1053 KHz 1 mV 1 KHz, 30% AM | (A) | | | 250 mV ≤ (2) ≤ 500 mV | |
| VC FM | FM | | B | 87.5 MHz | : | 3 > 1.0 V 3 < 6.5 V | |
| | LW | | Â | 144 KHz | | <a>4 > 0.8 ∨ | |
| VC AM | MW | | | 1611 KHz | 2 | <4> < 6.5 V | |
| FM limiting Sensivity | FM | 93 MHz 15 μV Δf=22.5 KHz f mod = 1 KHz | (B) | | | 5 1.6V DC ± 0.1 V | |
| Oscillator | FM | | (B) | 98 MHz | | √7 > 20 mV | |
| voltage | AM | | (A) | 990 KHz | | 8 > 30 mV | |

| Adjustment | sĸ | | | | \emptyset | 0 0 |
|--------------------------|----|---|-----|---------------|-------------|---|
| Quad detector | FM | 93 MHz 40 μV | B | P2 93 MHz | 5170 | DC between 11 and 15 of 7150 ≤ 200 mV |
| FM limiting sensivity | FM | 93 MHz 15μV Δf = 22.5 KHz f mod = 1 KHz | B | P2 93 MHz | 3155 | 5 1.6 V DC ± 0.1 V |
| Sensivity search AM | MW | 990 KHz 70µV unmodulated | (A) | P1 990 KHz | 3175 | 9 1.75 V DC ± 0.1V |

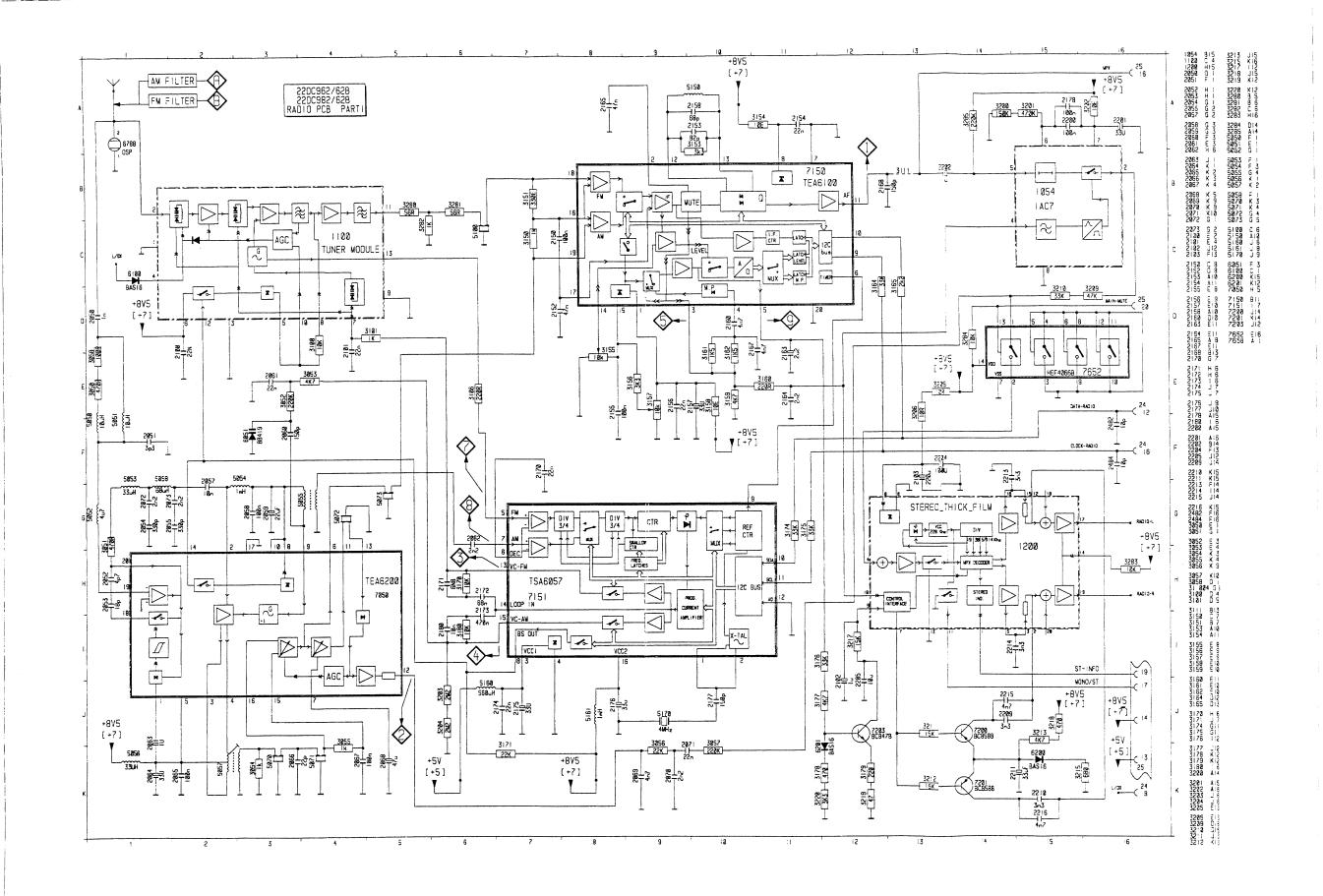
| | Technician's remarks | | |
|-----|----------------------|------|--|
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DC VOLTAGES

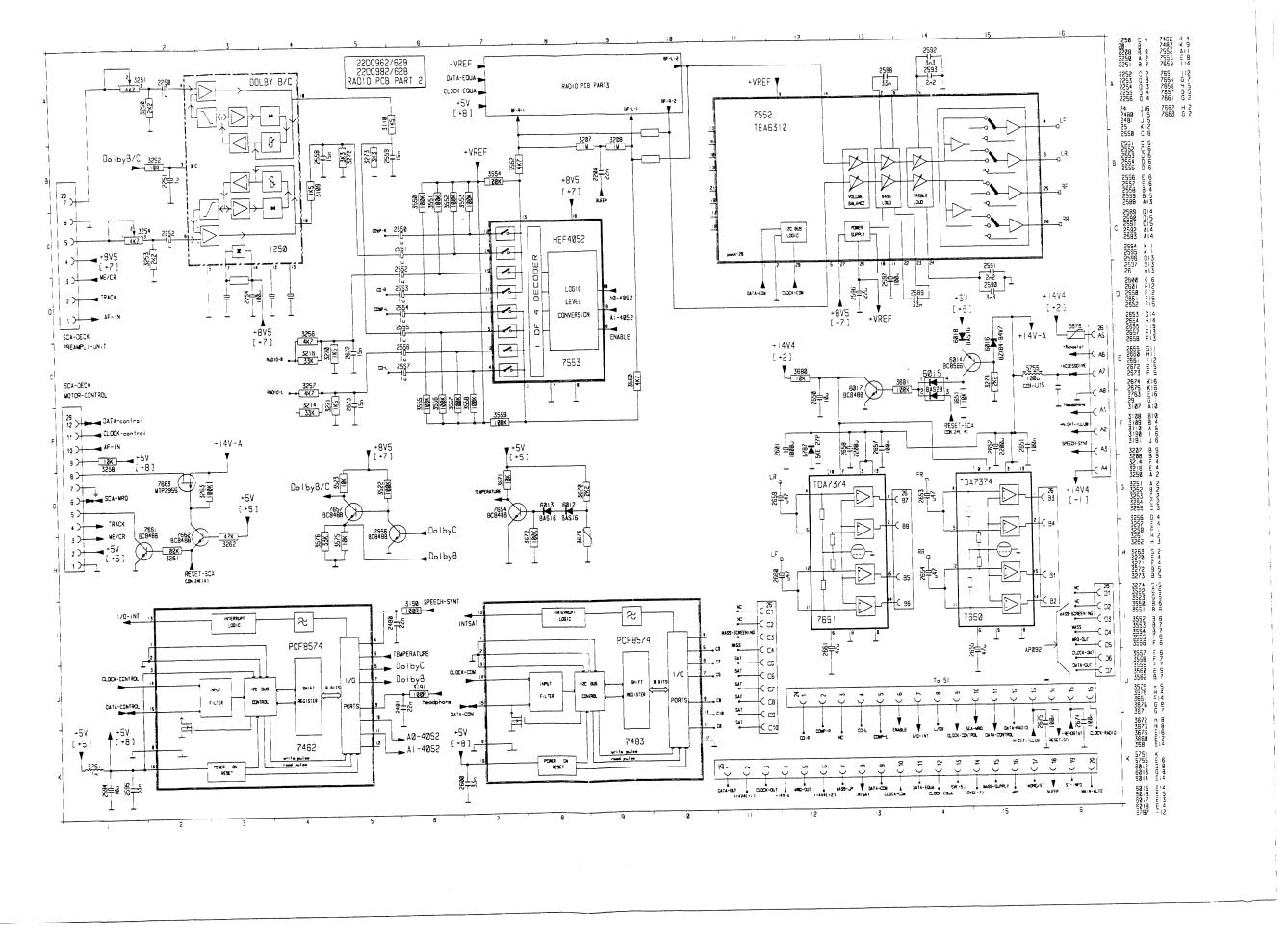
| 1054 IAC7 THIFI | | 7151 TSA6057 | |
|--------------------------------------|--|--|--|
| 2 = 3.3 VV | 5 = 5.0 V 6 = 7.9 V 7 = 8.3 V | 1 = 4 MHz 2 = 4 MHz 3 = 5.0 V | 9 = 40 KHz 10 = 5.0 V SDA 11 = 5.0 V SCL |
| 4 = 4.3 V | 8 = GND | 4 = GND 5 = 2.0 V 6 = 2.0 V 7 = 2.0 V | 12 = GND 13 = 1.3 V - 5.7 V FM 14 = 2.1 V 15 = 1.9 V - 3.4 V AM |
| 1100 TUNER MODULE | | 8 = 0.2 V FM / 8.5 V AM | 16 = 8.4 V |
| 1 = GND 2 = 0.0 V | 8 = 1.6 V 9 = GND | | |
| 3 = GND | 10 = 1.8 V | 7552 TEA6310 | |
| 4 = 0.0 V 5 = 1.8 V FM / 0.0 V AM | 11 = 0.0 V 12 = 8.5 V AM / 0.2 V FM | 1 = 5.1 V | 15 = 4.3 V |
| 6 = 8.5 V | 13 = 1.8 V | 2 = GND 3 = 4.3 V | 16 = N.C. 17 = N.C. |
| 7 = 1.3 V - 5.7 V | | 4 = 4.3 V 5 = 4.3 V | 18 = GND 19 = N.C. |
| 1200 STEREO THIFI | | 6 = 4.3 V | 20 = 4.3 V |
| 1 = 0.6 V St / 5.0 V Mono | 11 = 0.0 V FM / 4.7 V FM | 7 = 4.3 V 8 = N.C. | 21 = N.C. 22 = 4.3 V |
| 2 = 3.6 V 3 = 3.6 V | 12 = 3.6 V 13 = GND | 9 = 4.3 V | 23 = 4.3 V |
| 4 = 3.3 V | 14 = 8.5 V | 10 = N.C. 11 = 8.5 V | 24 = 4.3 V 25 = 4.3 V |
| 5 = 3.6 V 6 = GND | 15 = 3.5 V 16 = 3.5 V | 12 = N.C. 13 = N.C. | 26 = 4.3 V 27 = 8.5 V |
| 7 = 1.2 V FM / 0.7 VAM 8 = 8.1 V | 17 = 3.6 V 18 = N.C. | 14 = 4.3 V | 28 = 5.1 V |
| 9 = 5.5 V | 19 =3.6 V | | |
| 10 = 5.0 V | 20 = N.C. | 7553 HEF 4052B | |
| 1250 DOLBY B/C THIF! | | 1 = 4.2 V 2 = 4.3 V | 9 = 5.1 V 10 = 0.0 V |
| 1 = N.C. | 10 = 4.3 V | 3 = 4.3 V | 11 = 4.3 V |
| 2 = N.C. 3 = 6.0 V DBB / 8.5 V DB | C 12 = N.C. | 4 = 4.2 V 5 = 4.2 V | 12 = 4.3 V 13 = 4.3 V |
| 4 = 4.3 V 5 = GND | 13 = 4.3 V 14 = 8.4 V | 6 = 0.0 V / 5.0 V MUTE | 14 = 4.3 V 15 = 4.3 V |
| 6 = 4.3 V | 15 = 4.3 V | 7 = GND 8 = GND | 16 = 4.5 V 16 = 8.5 V |
| 7 = 8.5 V 8 = N.C. | 16 = 4.3 V | | |
| 9 = N.C. | 18 = 4.3 V | 7650/7651 TDA7374 | |
| 7050 TEA6200 | | 1 = 6.9 V | 9 = GND 10 = NC |
| 1 = 6.0 V AM | 11 = 6.7 V AM | 2 = 6.9 V 3 = 14.0 V | 11 =0.7 V |
| 2 = 4.1 V AM 3 = 8.5 V AM | 12 = 2.9 V AM 13 = 5.0 V AM | 4 = 0.7 V 5 = 0.7 V | 12 =0.7 V 13 = 14.0 V |
| 4 = 8.5 V AM | 14 = 8.5 V AM / 0.2 V FM | 6 = 0.7 V | 14 = 6.9 V |
| 5 = 8.5 V AM 6 = 7.3 V AM | 15 = 4.7 V AM 16 = 4.7 V AM | 7 = 9.4 V 8 =GND | 15 = 6.9 V |
| 7 = 1.4 V AM 8 = 4.1 V AM | 17 = GND 18 = 4.9 V AM | | |
| 9 = 4.1 V AM | 19 = 0.7 V AM 20 = 5.0 V AM | 7652 HEF4066 | |
| 10 = 4.1 V AM | 20 = 5.0 V AM | 1 = 3.3 V | 8 = GND |
| | | 2 = 3.2 V 3 = GND | 9 = GND 10 = GND |
| T. CO TE 14.00 | | 4 = GND | 11 = GND |
| 7150 TEA6100 1 = 8.2 V | 11 = 4.6 V | 5 = GND 6 = GND | 12 = GND 13 = 8.5 V / 0.0 V MUTE |
| 2 = 0.8 V | 12 = 4.6 V | 7 = GND | 14 = 8.5 V |
| 3 = 4.4 V 4 = 0.0 V | 13 = 4.6 V 14 = 2.6 V | | |
| 5 = 0.0 V | 15 = 4.3 V | | |
| 6 = 40 KHz 7 = GND | 16 = 3.0 V 17 = 3.0 V | | |
| 8 = 8.4 V 9 = 5.0 V | 18 = 3.0 V 19 = 3.0 V | | |
| 10 = 5.0 V | 20 = GND | | |
| | | | |



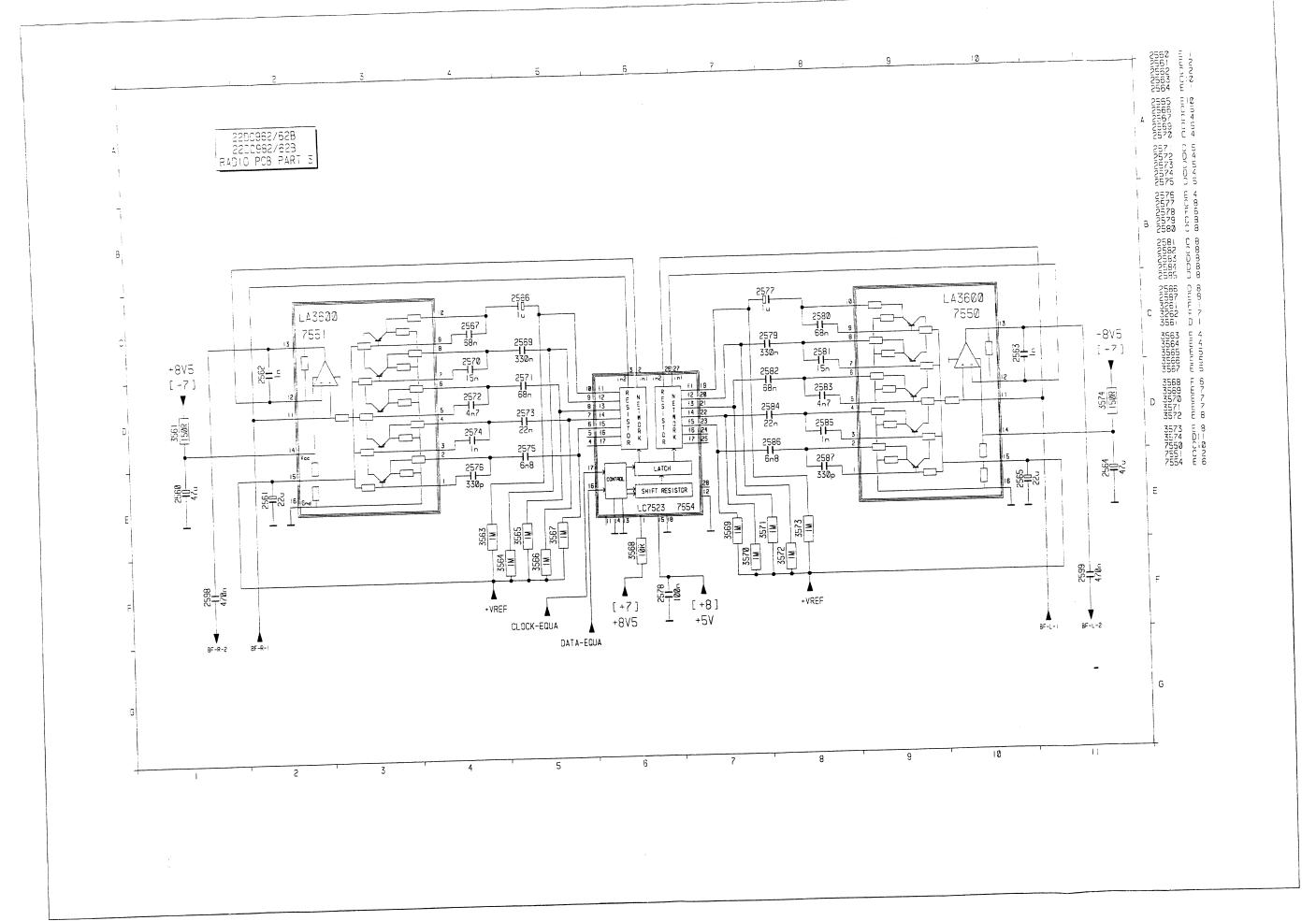
11a

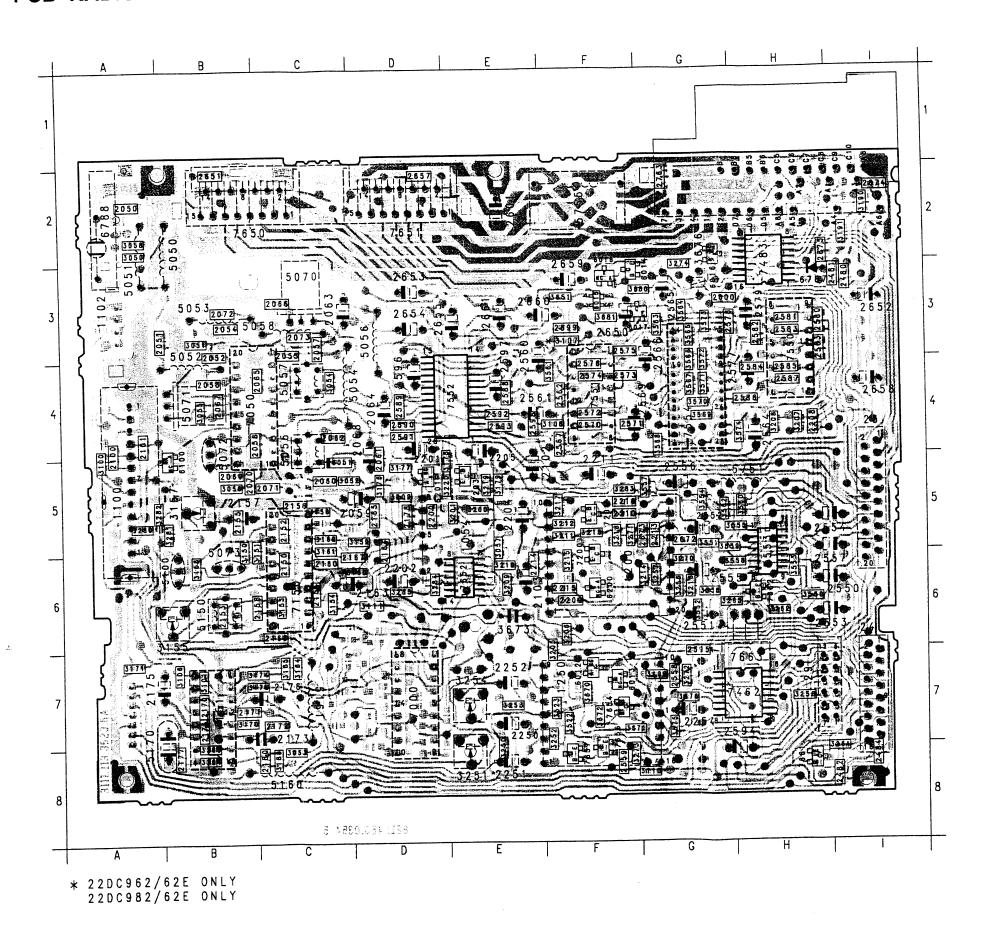


12



13a

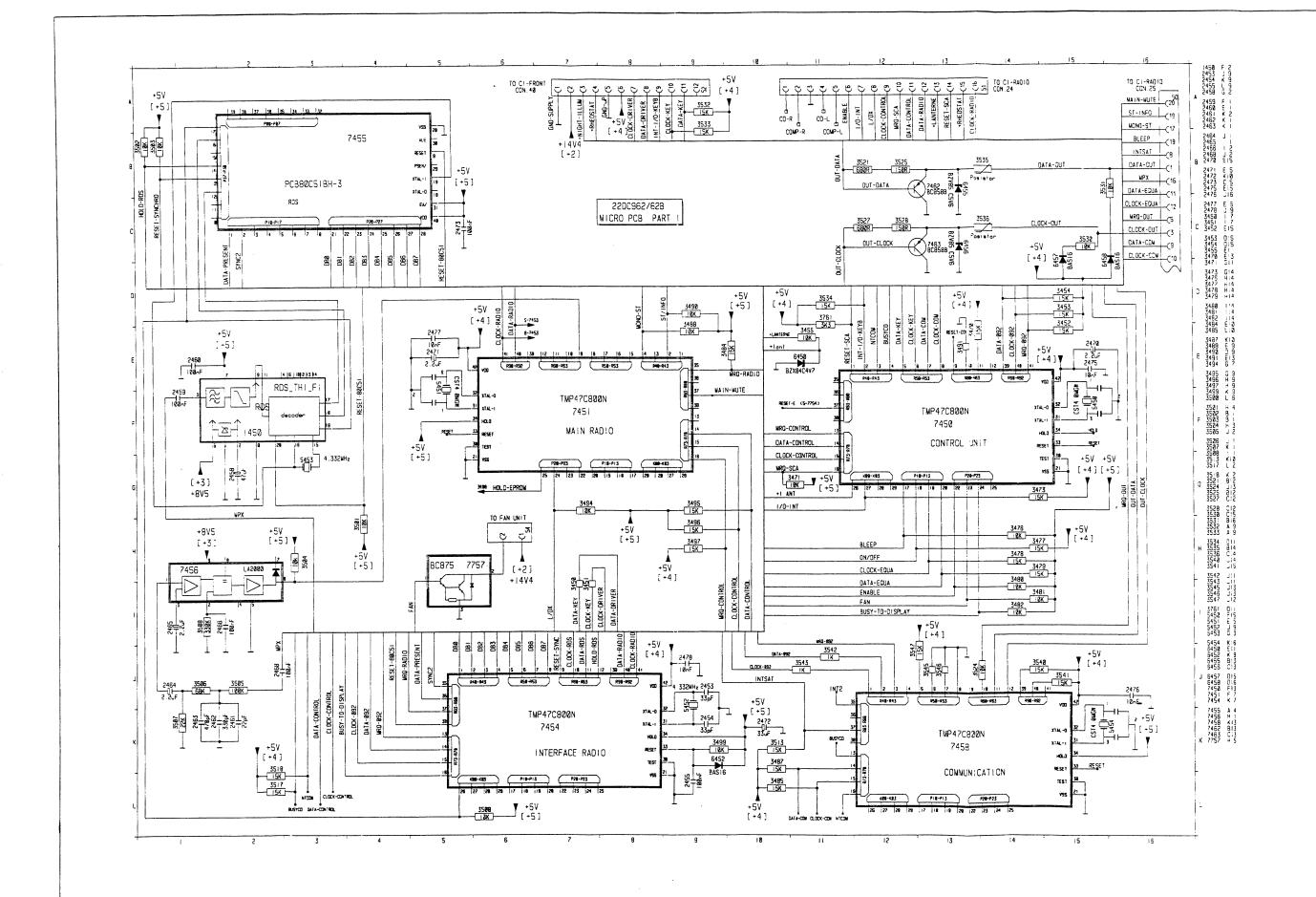


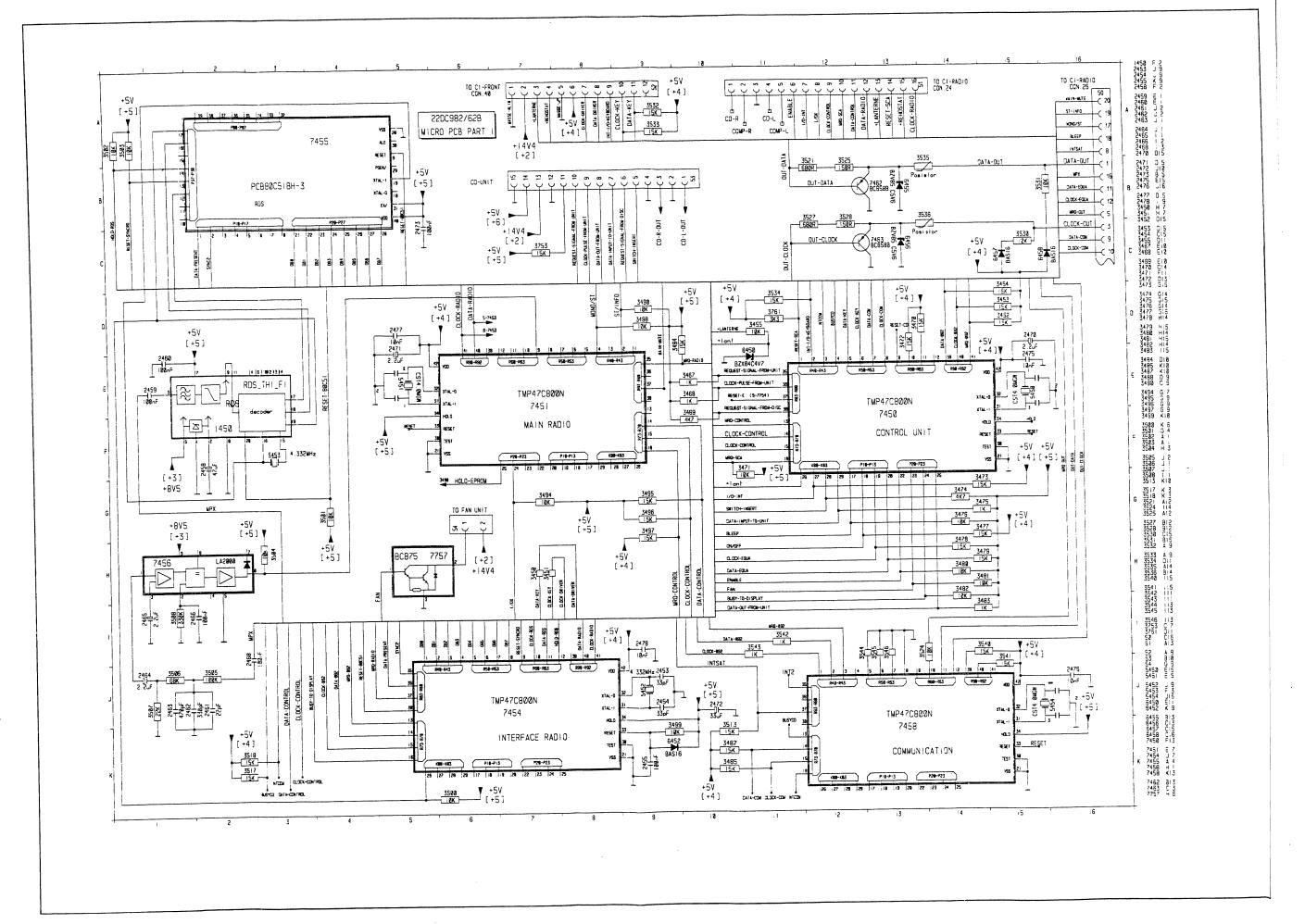


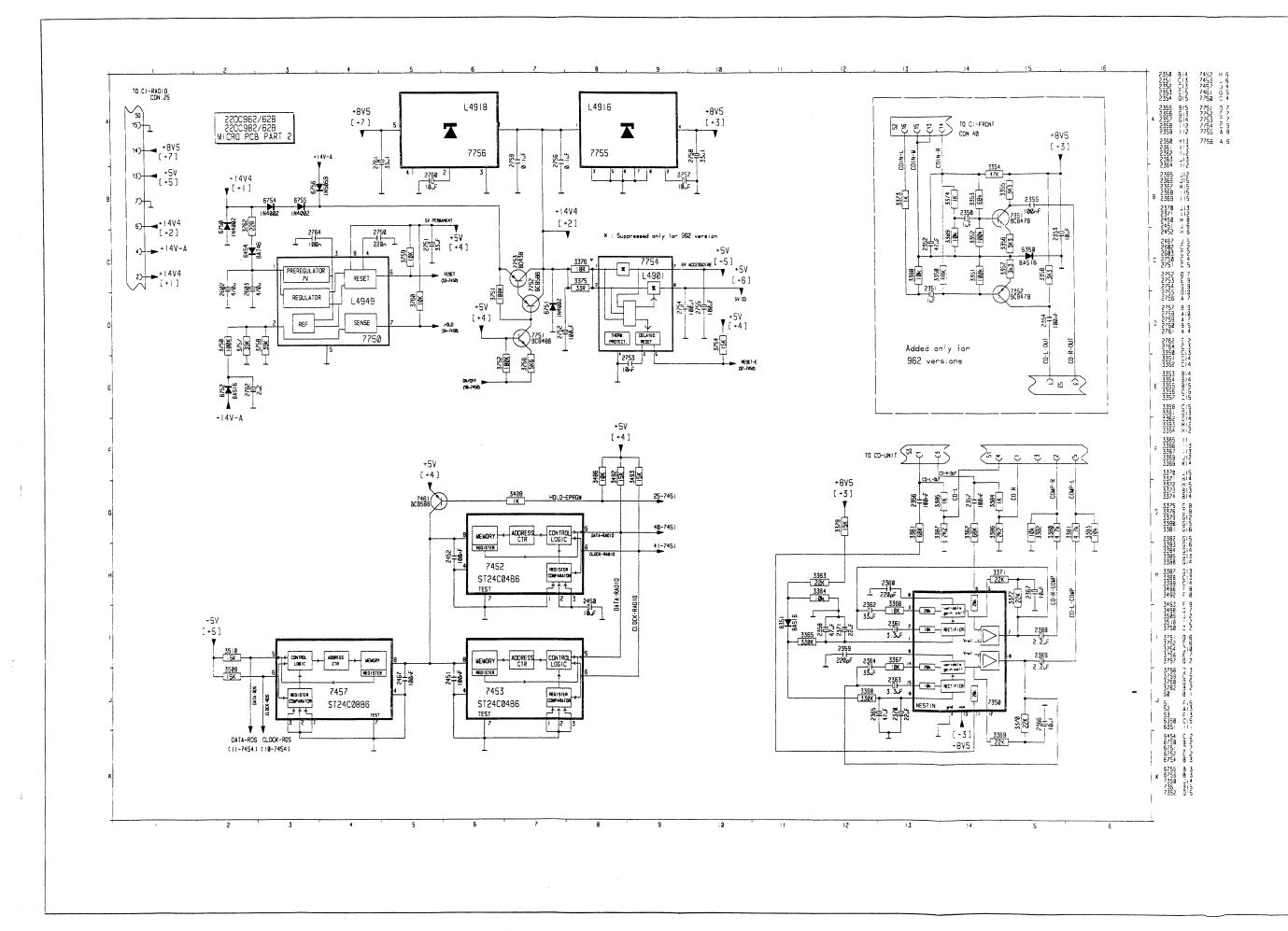
| 5E 5A 3A 6F 7F | 2569 2570 2571 2572 2573 | 4G 4F 4F 4F 4F | 3204 3205 3206 3207 3208 | 8B 7F 6F 4H 4H | 5755 6012 6013 6014 6015 | 2F 7F 7F 3G 3F |
|----------------------------|---|---|--|---|--|---|
| 2A 3B 3B 4B 3B | 2574 2575 2576 2577 2578 | 4F 3F 4F 4H 3H | 3209 3210 3211 3212 3213 | 6E 6E 5F 5F 5F | 6016 6017 6018 6051 6100 | 3G 3G 2F 5C 5B |
| 3C 3C 4C 5D 5C | 2579 2580 2581 2582 2583 | 3H 3H 3H 3H 3H | 3214 3215 3216 3217 3218 | 6G 6F 6G 5F 5F | 6200 6201 6787 6788 7000 | 6F 5D 3H 2A 7D |
| 5D 4C 3C 4D 4C | 2584 2585 2586 2587 2588 | 4H 4H 4H 4H 4E | 3219 3220 3250 3251 3252 | 5E 5E 8E 7F | 7050 7150 7151 7200 7201 | 4B 6C 7B 6F 5F |
| 3C 4B 4D 5B 5B | 2589 2590 2591 2592 2593 | 4D 4D 4D 4E 4E | 3253 3254 3256 3257 3258 | 7E 7E 6G 6G 7H | 7203 7462 7483 7550 7551 | 5E 7H 3H 3H 4F |
| 5C 3B 3C 4A 4A | 2594 2595 2596 2597 2598 | 7H 7G 4D 3E 4E | 3261 3262 3263 3270 3271 | 81 6H 6G 5F | 7552 7553 7554 7650 7651 | 4E 6H 4G 2C 2D |
| 5F 6C 5C 6B | 2599 2600 2601 2650 2651 | 3F 3G 2E 3F 2B | 3272 3273 3274 3280 3281 | 7G 8F 3G 5A 5B | 7652 7654 7656 7657 7661 | 6E 7F 7F 8F 8H |
| 6C 5B 5C 5B 6C | 2652 2653 2654 2655 2657 | 31 3D 3D 3D 2D | 3282 3283 3284 3285 3522 | 5B 5F 6D 6D 7F | 7662 7663 | 6H 7H |
| 6C 6D 5D 5D 6D | 2658 2659 2660 2661 2672 | 41 3F 3E 3E 5G | 3523 3550 3551 3552 3553 | 7F 6H 5G 6G 6H | | |
| 6C 7B 7B 7C 7C | 2673 2674 2675 2763 3050 | 21 21 2G 2A | 3555 3556 3557 3558 | 5H 6G 5G 6H | | |
| 7A 7C 8B | 3051 3052 3053 3054 3055 | 3B 5D 8C 4C 4B | 3559 3560 3561 3562 3563 | 5H 4F 5G 3G | | |
| 5D 5D 6D | 3056 3057 3058 3100 3101 | 5B 5E 2A 5A 7B | 3564 3565 3566 3567 3568 | 3G 3G 4G 4G 4G | | |
| 4H 6F 5F | 3106 3107 3108 3109 3110 | 7B 3F 4F 7G 8G | 3570 3571 3572 | 4G 4G 4G | | |
| 6E 6F 6F | 3111 3150 3151 3153 3154 | 6D 5B 5C 6C 6C | 3575 3576 3651 | 7G 7G 3F | | |
| 2 7E 4 7G 0 3I | 3158 | 5C | 3673 3676 | 6E 2G | | |
| 4 81 0 61 1 60 | 3161 3162 3164 | 5C 5C | 5050 5051 5052 | 2 B 3 A 2 3 B | | |
| 4 51 5 60 6 50 | 3171 3174 3 3175 | 7A 7C 7C | 5056 5056 5057 | 5 4C 5 3C 7 4C | ;) | |
| 9 8F 0 3E 1 4E | 3178 3179 3180 | 5 5E 9 5E 9 8C | 507 5072 5073 | 1 4E 2 4E 3 5E | } } | |
| 4 41 5 30 6 30 | 3200 3 3200 3 3200 |) 5E 1 5E 2 5E | 516 516 517 | 0 80 1 70 0 74 | | |
| | 5367 23388B CCCDC DCCDC CBDBB CBCAA FECCB CBCBC CDDDD CBBCC CBDDD CBBCC BCBCBC CBDDD CBBCC BCBCBC CBCBC CBCCBC CBCBC CBCBC CBCBC CBCCBC | 5ĀA 2570 2571 2572 2573 436 2575 336 2575 348 2576 38 2576 38 2576 38 2577 33 36 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2685 | 5A 2570 4F 3A 2571 4F 6F 2573 4F 2573 4F 2574 4F 3B 2576 4F 4B 2577 3H 3B 2576 4F 4B 2577 3H 3C 2580 3H 4C 2581 3H 5D 2582 3H 4C 2583 4H 4C 2588 4E 3C 2588 4H 4C 2588 4H 3C 2588 4H 4C 2588 4H 3C 2589 4D 4D 2591 4D 4D 2591 4E 4D 2593 4E 4D 2593 4E 4D 2593 4E 4D 2598 4E 4D 2599 | 5A 2570 4F 3206 3A 2571 4F 3207 6F 2572 4F 3208 2A 2574 4F 3209 3B 2575 3F 3210 3B 2576 4F 3211 4B 2577 4H 3212 3C 2580 3H 3215 4C 2581 3H 3215 4C 2581 3H 3217 5C 2583 3H 3217 5C 2583 3H 3219 4C 2586 4H 3220 3C 2588 4H 3229 4C 2588 4H 3251 4C 2588 4H 3251 4C 2588 4H 3253 4D 2587 4H 3253 4D 2589 4D 3253 4D 2588 4E 3253 | 5A 2570 4F 3205 7F 3A 2571 4F 3206 6F 6F 2572 4F 3209 6E 6F 2573 4F 3209 6E 3B 2576 4F 3211 5F 3B 2576 4F 3211 5F 4B 2577 4H 3213 5F 3C 2580 3H 3215 6F 4C 2581 3H 3216 6G 5D 2582 3H 3217 5F 5D 2584 4H 3220 5E 3C 2589 4H 3220 5E 3C 2588 4H 3225 7F 3C 2589 4H 3250 8E 4C 2588 4E 3257 7F 3C 2589 4D 3253 7E 4D 2591 4H | 5A 2570 4F 3205 7F 6013 6F 2571 4F 3206 6F 6014 6F 2572 4F 3207 4H 6014 6F 2573 4F 3208 4H 6015 3B 2575 3F 3210 6E 6017 3B 2577 4H 3211 5F 6018 3B 2578 3H 3213 5F 6010 3C 2580 3H 3213 5F 6100 3C 2581 3H 3216 6G 6200 4C 2581 3H 3217 5F 6010 4C 2581 3H 3218 5F 7000 5D 2584 4H 3220 5E 7050 4C 2588 4H 3253 7E 7203 4B 2594 4H 3253 7E 7203 |

PCS 67 815

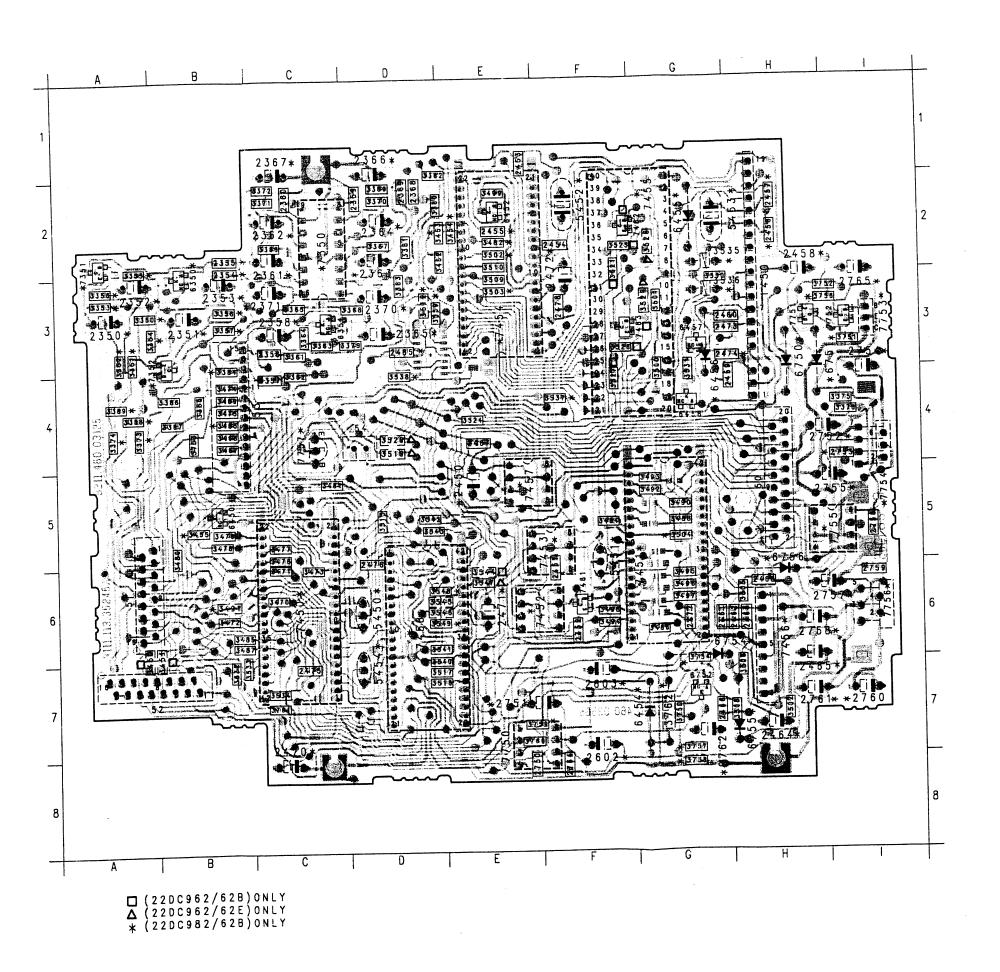
15



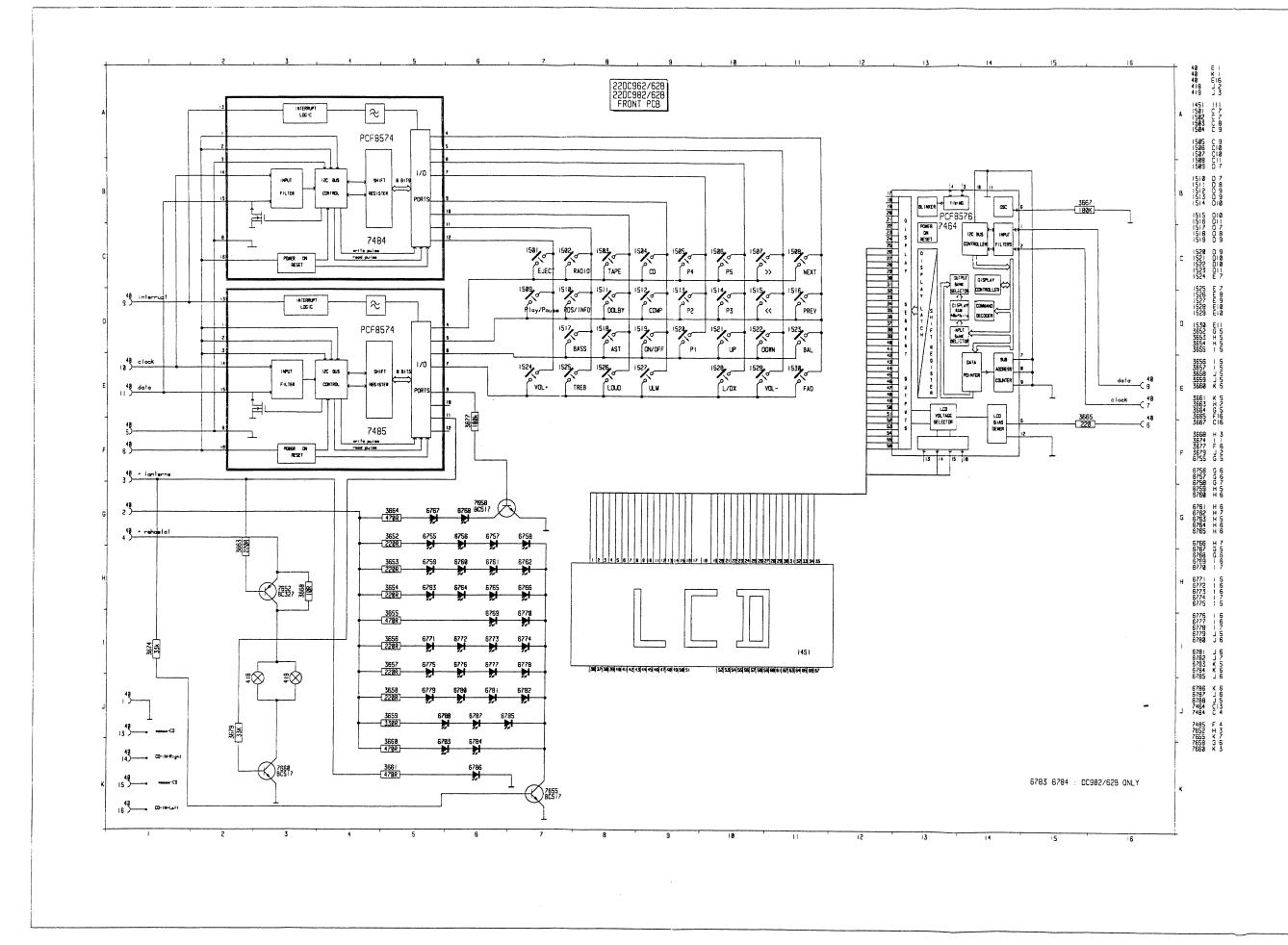




18



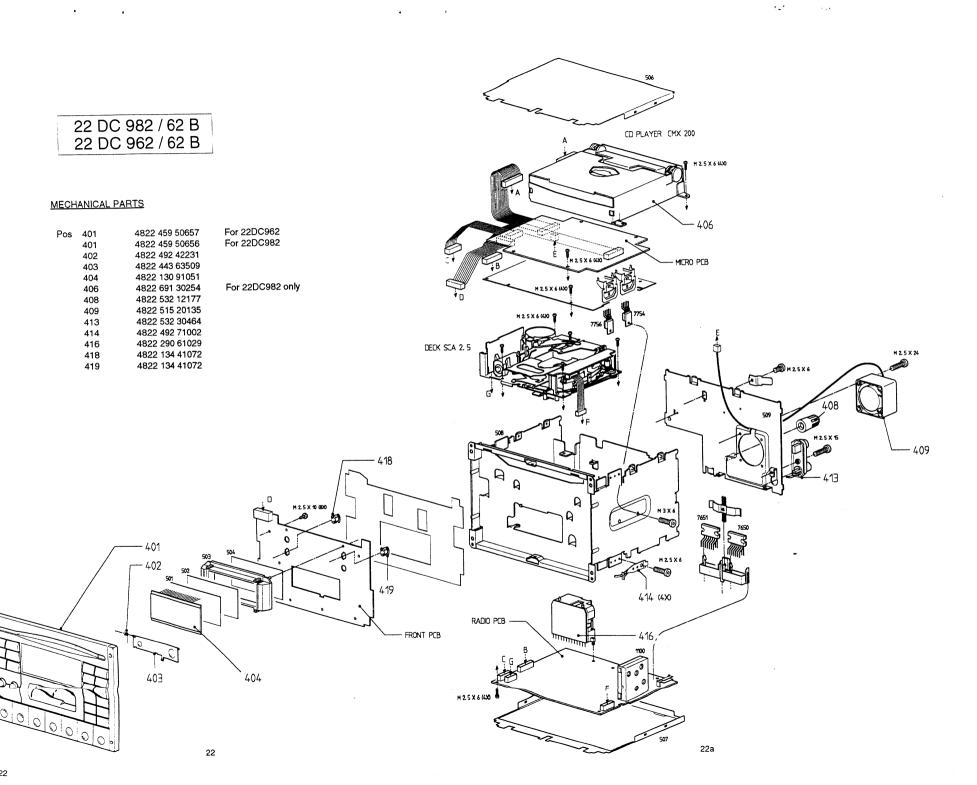
PCS 67 819



20

20a

21a



| Miscell | aneous | | -11- | | |
|---------|-------------------|----------------------|----------------|----------------|-------------------------|
| 054 | 4822 214 51676 | I.A.C THICKFILM | 2072 | 4822 122 33175 | 2,2NF 20% X7R 50V |
| 100 | 4822 210 10305 | TUNER | 2073 | 4822 122 33175 | 2,2NF 20% X7R 50V |
| 200 | 4822 214 51856 | ST.D THICKFILM | 2100 | 4822 122 33555 | 22NF10% |
| | 4822 209 62773 | NR9550 THIFI DOLBY | 2101 | 4822 122 33555 | 22NF10% |
| 250 | | | 2102 | 4822 124 41969 | 1μF 20% 50V |
| 250 | 4822 214 52082 | DBC3 THICKFILM DOLBY | 2102 | 4022 124 41300 | 1 p. 2010 00 1 |
| 1450 | 4822 214 52083 | RDS5 THICKFILM | 2103 | 4822 124 23768 | 220μF 20% 10V |
| | 4822 276 13103 | SWITCH | 2150 | 4822 122 33496 | 100NF10%X7R 63V |
| 1501 | | SWITCH | 2152 | 4822 122 32542 | 47NF10%X7R 63V |
| 1502 | 4822 276 13103 | | 2153 | 4822 122 33515 | 82PF 5%NP0 63V |
| 1503 | 4822 276 13103 | SWITCH | 1 | | 22NF10% |
| 1504 | 4822 276 13103 | SWITCH | 2154 | 4822 122 33555 | 22NF 1076 |
| 4505 | 4822 276 13103 | SWITCH | 2155 | 4822 122 33496 | 100NF10%X7R 63V |
| 1505 | | SWITCH | 2156 | 4822 122 33555 | 22NF10% |
| 1506 | 4822 276 13103 | | 2157 | 4822 124 40272 | 33uF20% 16V |
| 1507 | 4822 276 13103 | SWITCH | 1 | | 68PF 5%NP0 50V |
| 1508 | 4822 276 13103 | SWITCH | 2158 | 4822 122 33514 | |
| 1509 | 4822 276 13103 | SWITCH | 2160 | 5322 126 10223 | 4,7NF 10% X7R 50V |
| | | | 0450 | 4822 124 40244 | 2,2µF20% 63V |
| 1510 | 4822 276 13103 | SWITCH | 2163 | | 2,2NF 20% X7R 50V |
| 1511 | 4822 276 13103 | SWITCH | 2164 | 4822 122 33175 | |
| 1512 | 4822 276 13103 | SWITCH | 2165 | 4822 122 32542 | 47NF 10% X7R 1206 |
| | 4822 276 13103 | SWITCH | 2167 | 5322 126 10223 | 4,7NF 20% X7R 63V |
| 1513 | 4822 276 13103 | SWITCH | 2168 | 4822 122 33283 | 150PF 5%NP0 50V |
| 1514 | 4022 210 10100 | | 1 | | |
| 1515 | 4822 276 13103 | SWITCH | 2170 | 4822 122 33555 | 22NF10% |
| 1516 | 4822 276 13103 | SWITCH | 2171 | 5322 122 31866 | 6,8NF10%X7R 63V |
| | 4822 276 13103 | SWITCH | 2172 | 4822 122 32891 | 68NF10%X7R 63V |
| 1517 | | | 2173 | 4822 121 51252 | 470NF 5% 63V |
| 1518 | 4822 276 13103 | SWITCH | | 4822 122 33555 | 22NF10% |
| 1519 | 4822 276 13103 | SWITCH | 2174 | -022 122 00000 | |
| 1500 | 4822 276 13103 | SWITCH | 2175 | 4822 124 40272 | 33μF20% 16V |
| 1520 | | SWITCH | 2176 | 4822 124 40272 | 33µF20% 16V |
| 1521 | 4822 276 13103 | | 2177 | 4822 122 33283 | 150PF 5%NP0 50V |
| 1522 | | SWITCH | | | 100NF10%X7R 63V |
| 1523 | 4822 276 13103 | SWITCH | 2178 | 4822 122 33496 | |
| 1524 | | SWITCH | 2180 | 4822 122 33177 | 10NF 20% X7R 50V |
| | | OMITOU | 2200 | 4822 122 33496 | 100NF10%X7R 63V |
| 1525 | 4822 276 13103 | SWITCH | | | 33µF20% 16V |
| 1526 | 4822 276 13103 | SWITCH | 2201 | 4822 124 40272 | |
| 1527 | | SWITCH | 2202 | 4822 124 41969 | 1μF 20% 50V |
| 1528 | | SWITCH | 2204 | 4822 124 23432 | 100μF20% 10V |
| 1529 | | SWITCH | 2205 | 4822 124 22403 | 10μF 20% 16V |
| 1529 | | *** | | | 001151001 |
| 1530 | 4822 276 13103 | SWITCH | 2208 | 4822 122 33555 | 22NF10% |
| | | | 2209 | 4822 122 33585 | 3,3NF10% |
| 11 | | | 2210 | 4822 122 33585 | 3,3NF10% |
| 41 | | | 2211 | 4822 124 40272 | 33μF20% 16V |
| 2050 | | 1NF10%X7R 63V | 2213 | 4822 122 33585 | 3,3NF10% |
| 2051 | | 3,3PF 5%NP0 50V | 1 | | |
| 2052 | 5322 122 32287 | 4,7PF 5%NP0 50V | 2214 | 4822 122 33585 | 3,3NF10% |
| 2053 | | 18PF 5%NPO 50V | 2215 | 5322 126 10223 | 4,7NF10%X7R 63V |
| 2054 | | 330PF 5%NP0 50V | 2216 | 5322 126 10223 | 4,7NF10%X7R 63V |
| 2034 | | | | 4822 124 41969 | 1μF20% 50V |
| 205 | 5 5322 122 31863 | 330PF 5%NP0 50V | 2250 | | 1μF20% 50V |
| 205 | | 10NF 10% X7R 0805 | 2251 | 4822 124 41969 | 1µ1 20 /8 30 ¥ |
| 205 | | | ļ | | 4 5000/ 501/ |
| 205 | | 100NF10%X7R 63V | 2252 | 4822 124 41969 | 1μF20% 50V |
| 205 | 9 4822 124 41796 | 22μF20% 16V | 2253 | 4822 124 41969 | 1μF20% 50V |
| 206 | | 150PF 5%NP0 50V | 2254 | 4822 124 23432 | 100μF20% 10V |
| | | | 2255 | 4822 124 23432 | 100μF20% 10V |
| 206 | | 22NF10% | 2256 | 4822 124 23432 | 100μF20% 10V |
| 206 | | 2,2NF 20% X7R 50V | | | |
| 206 | | 1µF20% 50V | 2350# | 4822 124 41969 | 1μF20% 50V |
| 206 | | 33μF20% 16V | | | 1μF20% 50V |
| | | 100NF10%X7R 63V | 2351# | | 47μF20% 16V |
| 206 | 5 4822 122 33496 | 100111 1070/111 001 | 2352# | | 10μF 20% 16V |
| 206 | 6 5322 122 32658 | 22PF 5% 50V | 2353# 2354# | | 100NF10%X7R 63V |
| 1 | | 100NF10%X7R 63V | 2354# | +022 122 00430 | .00,11, 10,0,11, 1, 301 |
| 206 | | | 1 | | 100NE100 VED 001 |
| 206 | | 47μF20% 16V | 2355# | | 100NF10%X7R 63V |
| 206 | | 4,7NF10%X7R 63V | 2356 | 4822 122 33496 | 100NF10%X7R 63V |
| 207 | O 4022 122 33175 | 3.3NF 30% X7R 50V | 2357 | 4022 122 33496 | 100NF10%X7R 63V |
| ١ | | | 2358 | 4822 124 23624 | 47µF20% 16V |
| 1 | | OONE 100/ | 1 | 1000 100 00501 | 220PF 5% |
| 20 | 71 4822 122 33555 | 22NF10% | 2359 | 4822 122 33584 | 22UFF 376 |

| 11 | | | 11- | | Val coof |
|--------------|----------------------------------|------------------------|------|------------------|---------------------|
| 2360 | 4822 122 33584 | 220PF 5% | 2570 | 4822 122 33128 | 15NF 10% X7R 0805 |
| 2361 | 4822 124 23767 | 3.3µF20% 50V | 2571 | 4822 122 32891 | 68NF 10% X7R 1206 |
| 2362 | 4822 124 40272 | 33μF20% 16V | 2572 | 5322 126 10223 | 4N7 10% X7R 0805 |
| 2363 | 4822 124 23767 | 3.3µF20% 50V | 2573 | 4822 122 33555 | 22NF 10% X7R 0805 |
| 2364 | 4822 124 40272 | 33µF20% 16V | 2574 | 5322 122 31647 | 1NF 10% X7R 1206 |
| | | 47μF20% 16V | 2575 | 5322 122 31866 | 6N8 10% X7R 0805 |
| 2365 | 4822 124 23624 | | 2576 | 5322 122 31863 | 330P 5% NP0 0805 |
| 2366 | 4822 124 22403 | 10μF 20% 16V | 1 | 4822 124 41969 | 1μF 20% 50V |
| 2367 | 4822 124 22403 | 10μF 20% 16V | 2577 | | 100NF10%X7R 63V |
| 2368 | 4822 124 11355 | SMC 2,2µF 6,3V 20% | 2578 | 4822 122 33496 | |
| 2369 | 4822 124 11355 | SMC 2,2µF 6,3V 20% | 2579 | 5322 121 42661 | 330NF 10% 63V |
| 0070 | 4822 124 41796 | 22µF20% 16V | 2580 | 4822 122 32891 | 68N 10% X7R 1206 |
| 2370 | 4822 124 41796 | 22μF20% 16V | 2581 | 4822 122 33128 | 15N 10% X7R 0805 |
| 2371 | | 10μF 20% 16V | 2582 | 4822 122 32891 | 68N 10% X7R 1206 |
| 2450 | 4822 124 22403 | | 2583 | 5322 126 10223 | 4N7 10% X7R 0805 |
| 2451 | 4822 122 33496 | 100NF10%X7R 63V | | | 22N 10% X7R 0805 |
| 2452 | 4822 122 33496 | 100NF10%X7R 63V | 2584 | 4822 122 33555 | 2214 1078 7/11 0000 |
| 2453 | 5322 122 32659 | 33PF 5% 50V | 2585 | 5322 122 31647 | 1N 10% X7R 1206 |
| 2454 | 5322 122 32659 | 33PF 5% 50V | 2586 | 5322 122 31866 | 6N8 10% X7R 0805 |
| 2454 | 4822 122 33496 | 100NF10%X7R 63V | 2587 | 5322 122 31863 | 330P 5% NP0 0805 |
| | | 47μF20% 16V | 2588 | 4822 122 31981 | 33NF+-0,5PF 50V |
| 2458 | 4822 124 23624 | | 2589 | 4822 122 31981 | 33NF+-0,5PF 50V |
| 2459 | 4822 122 33496 | 100NF10%X7R 63V | 2509 | | - |
| 2460 | 4822 122 33496 | 100NF10%X7R 63V | 2590 | 4822 122 33585 | 3,3NF10% |
| 2461 | 5322 122 32658 | 22PF 5% 50V | 2591 | 4822 122 33175 | 2,2NF 20% X7R 50V |
| 2462 | 5322 122 31863 | 330PF 5%NP0 50V | 2592 | 4822 122 33585 | 3,3NF10% |
| 2462 | 5322 122 32268 | 470PF 10% 50V | 2593 | 4822 122 33175 | 2,2NF 20% X7R 50V |
| 2464 | 4822 124 40244 | 2,2μF20% 63V | 2594 | 4822 124 22403 | 10μF 20% 16VV |
| | | | 2505 | 4900 100 21001 | 33NF 10% X7R 1206 |
| 2465 | 4822 124 40244 | 2,2µF20% 63V | 2595 | 4822 122 31981 | 22μF20% 16V |
| 2466 | 4822 122 33496 | 100NF10%X7R 63V | 2596 | 4822 124 41796 | |
| 2467 | 4822 122 33496 | 100NF10%X7R 63V | 2597 | 4822 124 23432 | 100μF20% 10V |
| 2468 | 4822 122 33496 | 100NF 10% 63V 1206 | 2598 | 4822 122 33325 | 470NF +80-20% 1206 |
| 2470 | 4822 124 40244 | 2,2μF20% 63V | 2599 | 4822 122 33325 | 470NF +80-20% 1206 |
| | 1000 45 / 1004 / | 0.0E009/ 631/ | 2600 | 4822 122 31981 | 33NF 10% X7R 1206 |
| 2471 | 4822 124 40244 | 2,2μF20% 63V | 2600 | 4822 124 40201 | 1000μF 20% 16V |
| 2472 | 4822 124 40272 | 33μF 20% 16V | | 4822 124 41009 | 470μF 20% 16V |
| 2473 | 4822 122 33496 | 100NF10%X7R 63V | 2602 | 4822 124 41009 | 470μF 20% 16V |
| 2475 | 4822 122 33177 | 10NF 10% X7R 0805 | 2603 | 4822 124 22403 | 10µF 20% 16V |
| 2476 | 4822 122 33177 | 10NF 10% X7R 0805 | 2650 | 4022 124 22403 | • |
| 2477 | 4822 122 33177 | 10NF 10% X7R 0805 | 2651 | 4822 122 33496 | 100NF10%X7R 63V |
| 2478 | 4822 122 33177 | 10NF 10% X7R 0805 | 2652 | 4822 124 22412 | 2200μF 20% 16V |
| 1 | | 22NF10% | 2653 | 5322 124 41948 | 470N+-20% 50V |
| 2480 | 4822 122 33555 | | 2654 | 5322 124 41948 | 470N+-20% 50V |
| 2481 2482 | 4822 122 33555 5322 122 32448 | 22NF10% 10PF 5% 50V | 2655 | 4822 124 23624 | 47μF20% 16V |
| 2402 | JULE 122 JE440 | | | | 100NE100/VZD 60V |
| 2484 | 5322 122 32448 | 10PF 5% 50V | 2657 | 4822 122 33496 | 100NF10%X7R 63V |
| 2550 | 4822 124 41969 | 1μF 20% 50V | 2658 | 4822 124 22412 | 2200μF 20% 16V |
| 2551 | 4822 124 41969 | 1μF 20% 50V | 2659 | 5322 124 41948 | 470N+-20% 50V |
| 2552 | 4822 124 41969 | 1μF 20% 50V | 2660 | 5322 124 41948 | 470N+-20% 50V |
| 2552 | 4822 124 41969 | 1μF 20% 50V | 2661 | _ 4822 124 23624 | 47μF20% 16V |
| | | . 5 000/ 551/ | 2672 | 4822 122 33128 | 15NF10%X7R 63V |
| 2554 | 4822 124 41969 | 1μF 20% 50V | | 4822 122 33128 | 15NF10%X7R 63V |
| 2555 | 4822 124 41969 | 1μF 20% 50V | 2673 | | 100NF10%X7R 63V |
| 2556 | 4822 124 41969 | 1μF 20% 50V | 2674 | 4822 122 33496 | |
| 2557 | 4822 124 41969 | 1μF 20% 50V | 2675 | 4822 122 33496 | 100NF10%X7R 63V |
| 2558 | 4822 122 33128 | 15NF10%X7R 63V | 2750 | 4822 122 32916 | 220NF 20% X7R 1210 |
| 0000 | 4822 122 33128 | 15NF10%X7R 63V | 2751 | 4822 124 40272 | 33μF20% 16V |
| 2559 | | | 2752 | 4822 124 41643 | 100μF 20% 16V |
| 2560 | | 47μF 20% 16V | 2753 | 4822 122 33177 | 10NF 20% X7R 50V |
| 2561 | | 22μF 20% 16V | 1 | 4822 124 23432 | 100µF 20% 10V |
| 2562 | | 1NF 10% X7R 1206 | 2754 | | 100µF 20% 10V |
| 2563 | 5322 122 31647 | 1NF 10% X7R 1206 | 2755 | 4822 124 23432 | 100με 20% 10 V |
| 2564 | 4822 124 23624 | 47μF 20% 16V | 2756 | 4822 122 33496 | 100NF10%X7R 63V |
| 2564 | | 22μF 20% 16V | 2757 | 4822 124 22403 | 10μF 20% 16V |
| 2565 | | 1μF 20% 50V | 2758 | 4822 124 40272 | 33µF 20% 10V |
| 2566 | | 68NF 10% X7R 1206 | 2759 | 4822 122 33496 | 100NF10%X7R 63V |
| 2567 | 4822 122 32891 | DOM: 10/6 A/ 11 1200 | | | |
| 2569 | | 330NF 10% 63V | 2760 | 4822 124 22403 | 10μF 20% 16V |

| | | | т. | | |
|------|----------------------------------|--------------------|-------|----------------|---------------------------------|
| 41- | | | | | |
| 2761 | 4822 124 40272 | 33μF 20% 16V | 3215 | 4822 051 20681 | 680Ω00 5% 0,1W |
| | 4822 124 40244 | 2.2µF 20% 50V | 3216 | 4822 051 20333 | 33KΩ00 5% 0,1W |
| 2762 | 4822 124 40244 4822 122 33496 | 100NF 10% 63V 1206 | 3217 | 4822 051 20153 | 15KΩ00 5% 0,1W |
| 2/64 | 4022 122 00400 | | 3218 | 4822 051 20471 | 470Ω00 5% 0,1W 47Ω00 5% 0,1W |
| | | | 3219 | 4822 051 20479 | |
| 3050 | 4822 051 20471 | 470Ω00 5% 0,1W | 3220 | 4822 051 20332 | 3KΩ30 5% 0.1W |
| 3051 | 4822 051 20471 | 470Ω00 5% 0,1W | 3250 | 4822 051 20222 | 2KΩ20 5% 0,1W |
| 3052 | 4822 051 20224 | 220ΚΩ 5% 0,1W | 3251 | 4822 100 11319 | 4ΚΩ7 |
| 3053 | 4822 051 20472 | 4KΩ70 5% 0,1W | 3252 | 4822 051 20109 | 10Ω 5% 0,1W 2KΩ20 5% 0,1W |
| 3054 | 4822 051 20102 | 1KΩ00 5% 0,1W | 3253 | 4822 051 20222 | |
| 3055 | 4822 051 20102 | 1KΩ00 5% 0,1W | 3254 | 4822 100 11319 | 4ΚΩ7 |
| 3056 | 4822 051 20223 | 22ΚΩ00 5% 0,1W | 3255 | 4822 051 20103 | 10ΚΩ00 5% 0,1W |
| 3057 | 4822 051 20224 | 220KΩ00 5% 0,1W | 3256 | 4822 051 20472 | 4ΚΩ7 5% 0805 |
| 3058 | 4822 051 20101 | 100Ω00 5% 0,1W | 3257 | 4822 051 20472 | 4ΚΩ7 5% 0805 10ΚΩ00 5% 0,1W |
| 3100 | 4822 051 20103 | 10KΩ00 5% 0,1W | 3258 | 4822 051 20103 | 10/12/00 5% 0,144 |
| 3101 | 4822 051 20102 | 1KΩ00 5% 0,1W | 3261 | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3106 | 4822 051 20221 | 220Ω00 5% 0,1W | 3262 | 4822 051 20473 | 47ΚΩ 5% 0805 |
| 3109 | 4822 051 20152 | 1KΩ5 5% 0,1W | 3263 | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3110 | 4822 051 20152 | 1KΩ5 5% 0,1W | 3270 | 4822 051 20152 | 1KΩ50 5% 0,1W |
| 3111 | 4822 051 10008 | 0Ω00 5% 0,25W | 3271 | 4822 051 20152 | 1KΩ50 5% 0,1W |
| 3150 | 4822 051 20102 | 1KΩ00 5% 0,1W | 3272 | 4822 051 20332 | 3KΩ3 5% 0,1W |
| 3151 | 4822 051 20331 | 330Ω00 5% 0,1W | 3273 | 4822 051 20332 | 3KΩ3 5% 0,1W |
| 3153 | 4822 051 20332 | 3KΩ30 5% 0,1W | 3274 | 4822 051 20222 | 2ΚΩ2 5% 0805 |
| 3154 | 4822 051 20109 | 10Ω00 5% 0,1W | 3280 | 4822 051 20569 | 56Ω 5% 0805 |
| 3155 | 4822 100 20166 | 10KΩ30%LIN 0,1W | 3281 | 4822 051 20569 | 56Ω 5% 0805 |
| 3156 | 4822 051 20332 | 3KΩ30 5% 0,1W | 3282 | 4822 051 20102 | 1ΚΩ 5% 0805 |
| 3157 | 4822 100 20166 | 10KΩ 30%LIN 0,1W | 3283 | 4822 051 20103 | 10 Κ Ω 5% 0805 |
| 3158 | 4822 051 20109 | 10Ω00 5% 0,1W | 3284 | 4822 051 20103 | 10ΚΩ 5% 0805 |
| 3159 | 4822 051 20472 | 4KΩ70 5% 0,1W | 3285 | 4822 051 20224 | 220ΚΩ 5% 0805 |
| 3160 | 4822 051 20221 | 220Ω00 5% 0,1W | 3350# | 4822 051 20683 | 68KΩ00 5% 0,1W |
| 3161 | 4822 051 20152 | 1KΩ50 5% 0,1W | 3351# | 4822 051 20103 | 10KΩ00 5% 0,1W |
| 3162 | 4822 051 20152 | 1KΩ50 5% 0,1W | 3352# | 4822 051 20103 | 10KΩ00 5% 0,1W |
| 3164 | 4822 051 20333 | 33KΩ00 5% 0,1W | 3353# | 4822 051 20683 | 68KΩ00 5% 0,1W |
| 3165 | 4822 051 20222 | 2KΩ20 5% 0,1W | 3354# | 4822 051 20473 | 47ΚΩ 5% 0805 |
| 3170 | 4822 051 20103 | 10KΩ00 5% 0,1W | 3355# | 4822 051 20332 | 3KΩ3 5% 0,1W |
| 2171 | 4822 051 20223 | 22KΩ00 5% 0,1W | 3356# | 4822 051 20332 | 3KΩ3 5% 0,1W |
| 3171 | 4822 051 20223 | 33KΩ00 5% 0,1W | 3357# | | 3KΩ3 5% 0,1W |
| 3174 | 4822 051 20333 | 33KΩ00 5% 0,1W | 3358# | | 3KΩ3 5% 0,1W |
| 3176 | 4822 051 20333 | 33KΩ00 5% 0,1W | 3361 | 4822 051 20683 | 68KΩ00 5% 0,1W |
| 3177 | 4822 051 20472 | 4KΩ70 5% 0,1W | 3362 | 4822 051 20683 | 68KΩ00 5% 0,1W |
| 3178 | 4822 051 20471 | 470Ω00 5% 0,1W | 3363 | 4822 051 20223 | 22KΩ00 5% 0,1W |
| 3179 | 4822 051 20221 | 220Ω00 5% 0,1W | 3364 | 4822 051 20103 | 10KΩ00 5% 0,1W |
| 3180 | 4822 051 20103 | 10KΩ00 5% 0,1W | 3365 | 4822 051 20334 | 330KΩ00 5% 0,1W |
| 3190 | 4822 051 20101 | 100Ω00 5% 0,1W | 3366 | 4822 051 20103 | 10KΩ00 5% 0,1W |
| 3191 | 4822 051 20101 | 100Ω00 5% 0,1W | 3367 | 4822 051 20103 | 10KΩ00 5% 0,1W |
| 3200 | 4822 051 20154 | 150KΩ00 5% 0,1W | 3368 | 4822 051 20334 | 330KΩ00 5% 0,1W |
| 3200 | 4822 051 20474 | 470KΩ00 5% 0,1W | 3369 | 4822 051 20223 | 22KΩ00 5% 0,1W |
| 3202 | 4822 051 20109 | 10Ω00 5% 0,1W | 3370 | 4822 051 20223 | 22KΩ00 5% 0,1W |
| 3203 | 4822 051 20225 | 2M2 5% 0,1W | 3371 | 4822 051 20223 | 22KΩ00 5% 0,1W |
| 3204 | 4822 051 20225 | 2M2 5% 0,1W | 3372 | 4822 051 20223 | 22KΩ00 5% 0,1W |
| 3205 | 4822 051 20109 | 10Ω00 5% 0,1W | 3373 | | 1ΚΩ 5% 0805 |
| 3206 | 4822 051 20109 | 10Ω00 5% 0,1W | 3374 | | 1ΚΩ 5% 0805 |
| 3207 | 4822 051 20105 | 1M 5% 0805 | 3375 | 4822 051 20339 | 33Ω00 5% 0,1W |
| 3208 | 4822 051 20105 | 1M 5% 0805 | 3376 | | 10Ω00 5% 0,1W |
| 3209 | | 47KΩ00 5% 0,1W | 3379 | 4822 051 20153 | 15KΩ00 5% 0,1W |
| 3210 | 4822 051 20333 | 33K000 5% 0.1W | 3380 | | 4KΩ7 5% 0.1W |
| 3211 | 4822 051 20153 | 15KDOO 5% 0,1W | 3381 | 4822 051 20472 | 4KΩ7 5% 0,1W |
| 3212 | | 15KΩ00 5% 0,1W | 3382 | | 10KΩ 5% 0,1W |
| 3213 | 4822 051 20472 | 4KΩ70 5% 0.1W | 3383 | 4822 051 20103 | 10ΚΩ 5% 0,1W |
| 3214 | | 33ΚΩ 5% 0805 | 3384 | 4822 051 20102 | 1KΩ 5% 0805 |

| | 1000 051 20102 | 1ΚΩ 5% 0805 | 3523 | 4822 051 20103 | 10KΩ 5% 0,1W |
|--------------|----------------------------------|----------------------------------|-------|----------------------------------|--|
| 385 | 4822 051 20102 | 2ΚΩ2 5% 0805 | 3524 | 4822 051 20103 | 10KΩ00 5% 0,1W |
| 386 | 4822 051 20222 | | 3525 | 4822 051 20151 | 150Ω 5% 0,1W |
| 3387 | 4822 051 20222 | 2ΚΩ2 5% 0805 | 3527 | 4822 051 20681 | 680Ω 5% 0,1W |
| 388# | 4822 051 20103 | 10KΩ00 5% 0,1W | 3528 | 4822 051 20151 | 150Ω 5% 0,1W |
| 389# | 4822 051 20103 | 10KΩ00 5% 0,1W | 3526 | 4022 001 20101 | |
| | 4822 051 20008 | JUMPER OΩO5 | 3530 | 4822 051 20103 | 10ΚΩ00 5% 0,1W |
| 3450 | | CHIP JUMPER | 3531 | 4822 051 20103 | 10KΩ00 5% 0,1W |
| 3451 | 4822 051 10008 | | 3532 | 4822 051 20153 | 15KΩ00 5% 0,1W |
| 3452 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3533 | 4822 051 20153 | 15KΩ00 5% 0,1W |
| 3453 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3534 | 4822 051 20153 | 15KΩ00 5% 0,1W |
| 3454 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3554 | 4022 051 25100 | |
| 3455 | 4822 051 20103 | 10KΩ00 5% 0,1W | 3535 | 4822 116 40221 | POSIST PTH60G31AR8Ω2 POSIST PTH60G31AR8Ω2 |
| | 4822 051 20102 | 1KΩ00 5% 0,1W | 3536 | 4822 116 40221 | POSIST PTHOOGSTAROSZZ |
| 3467* | 4822 051 20102 | 1KΩ00 5% 0,1W | 3540 | 4822 051 20153 | 15ΚΩ00 5% 0,1W |
| 3468* | | 4KΩ70 5% 0,1W | 3541 | 4822 051 20153 | 15KΩ00 5% 0,1W |
| 3469* | 4822 051 20472 | | 3542 | 4822 051 20102 | 1KΩ00 5% 0,1W |
| 3470 | 4822 051 20153 | 15ΚΩ 5% 0805 | 00.72 | | |
| 3471 | 4822 051 20103 | 10KΩ00 5% 0,1W | 3543 | 4822 051 20102 | 1KΩ00 5% 0,1W |
| 3471 | | 15KΩ00 5% 0,1W | 3544 | 4822 051 10008 | CHIP JUMPER |
| 3472* | 4822 051 20153 | 15KΩ00 5% 0,1W | 3545 | 4822 051 10008 | 0Ω00 5% 0,25W |
| 3473 | 4822 051 20153 | | 3546 | 4822 051 10008 | oΩ00 5% 0,25W |
| 3474* | 4822 051 20472 | 4KΩ70 5% 0,1W | 1 | 4822 051 10000 | 100ΚΩ 5% 0805 |
| 3475* | 4822 051 20102 | 1KΩ00 5% 0,1W | 3550 | 4022 031 20 104 | |
| | 4000 054 00402 | 10KΩ00 5% 0,1W | 3551 | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3476 | 4822 051 20103 | | 3552 | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3477 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3553 | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3478 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3554 | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3479 | 4822 051 20153 | 15KΩ00 5% 0,1W | | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3480 | 4822 051 20103 | 10KΩ00 5% 0,1W | 3555 | 4022 031 20 104 | . • • • • • • • • • • • • • • • • • • • |
| | | 10ΚΩ00 5% 0,1W | 3556 | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3481 | 4822 051 20103 | | 3557 | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3482 | 4822 051 20103 | 10ΚΩ00 5% 0,1W | 3558 | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3483* | 4822 051 20102 | 1ΚΩ00 5% 0,1W | | 4822 051 20104 | 100ΚΩ 5% 0805 |
| 3484 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3559 | 4822 051 20472 | 4KΩ70 5% 0,1W |
| 3485 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3560 | 4822 051 20472 | 414270 070 07111 |
| | 4000 051 00103 | 10KΩ00 5% 0,1W | 3561 | 4822 051 20151 | 150Ω 5% 0805 |
| 3486 | 4822 051 20103 | 15KΩ00 5% 0,1W | 3562 | 4822 051 20472 | 4KΩ70 5% 0,1W |
| 3487 | 4822 051 20153 | | 3563 | 4822 051 20105 | 1M 5% 0805 |
| 3488 | 4822 051 20103 | 10ΚΩ00 5% 0,1W | 3564 | 4822 051 20105 | 1M 5% 0805 |
| 3489 | 4822 051 20103 | 10KΩ00 5% 0,1W | 3565 | 4822 051 20105 | 1M 5% 0805 |
| 3490 | 4822 051 20103 | 10ΚΩ00 5% 0,1W | 3303 | 4022 001 20100 | |
| 3491# | 4822 051 10008 | CHIP JUMPER | 3566 | 4822 051 20105 | 1M 5% 0805 |
| 1 | | 15KΩ00 5% 0,1W | 3567 | 4822 051 20105 | 1M 5% 0805 |
| 3492 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3569 | 4822 051 20105 | 1M 5% 0805 |
| 3493 | 4822 051 20153 | | 3570 | 4822 051 20105 | 1M 5% 0805 |
| 3494 | 4822 051 20103 | 10ΚΩ00 5% 0,1W 15ΚΩ00 5% 0,1W | 3571 | 4822 051 20105 | 1M 5% 0805 |
| 3495 | 4822 051 20153 | 13/12/00/3 /6 0,144 | | • | |
| 3496 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3572 | 4822 051 20105 | 1M 5% 0805 |
| 3497 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3573 | 4822 051 20105 | 1M 5% 0805 |
| | 4822 051 20102 | 1KΩ00 5% 0,1W | 3574 | 4822 051 20151 | 150Ω 5% 0805 |
| 3498 | | 10ΚΩ00 5% 0,1W | 3575 | 4822 051 20103 | 10KΩ 5% 0,1W |
| 3499 3500 | 4822 051 20103 4822 051 20103 | 10ΚΩ00 5% 0,1W | 3576 | 4822 051 20333 | 33KΩ 5% 0,1W |
| 3300 | | | | | 10ΚΩ 5% 0805 |
| 3501 | 4822 051 20103 | 10KΩ00 5% 0,1W | 3651 | 4822 051 20103 | |
| 3502 | 4822 051 20103 | 10 ΚΩ00 5% 0,1W | 3652 | 4822 116 52215 | 220E 5% 0,5W |
| 3502 | 4822 051 20103 | 10KΩ00 5% 0,1W | 3653 | 4822 116 52215 | 220E 5% 0,5W |
| 1 | 4822 051 20103 | 10ΚΩ00 5% 0,1W | 3654 | 4822 116 52215 | 220E 5% 0,5W |
| 3504 | 4822 051 20103 | 100ΚΩ00 5% 0,1W | 3655 | 4822 050 24701 | 470Ω 1% 0,6W |
| 3505 | 4022 001 20104 | | | | 000F 50/ 0 5/M |
| 3506 | 4822 051 20683 | 68KΩ00 5% 0,1W | 3656 | 4822 116 52215 | 220E 5% 0,5W |
| 3507 | 4822 051 20223 | 22KΩ00 5% 0,1W | 3657 | 4822 116 52215 | 220E 5% 0,5W |
| 3508 | 4822 051 20334 | 330KΩ00 5% 0,1W | 3658 | 4822 116 52215 | 220E 5% 0.5W |
| 3509 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3659 | 4822 050 23301 | 330Ω 1% 0,6W |
| 3510 | 4822 051 20153 | 15KΩ00 5% 0,1W | 3660 | 4822 050 24701 | 470Ω 1% 0,6W |
| 55.0 | | | | 4000 050 45001 | 5600 1% 0 4W |
| 3513 | | 15KΩ00 5% 0,1W | 3661 | 4822 050 15601 | 560Ω 1% 0,4W 1KΩ50 1% 0,6W |
| 3517 | | 15KΩ00 5% 0,1W | 3663 | 4822 050 21502 | |
| | | 15KΩ00 5% 0,1W | 3664 | 4822 050 24701 | 470Ω 5% R25J 220Ω 5% 0,5W |
| 1 | | | | | |
| 3518 3521 | | 680Ω 5% 0,1W | 3665 | 4822 116 52215 4822 116 52215 | 220Ω 5% 0,5W |

| 3686 4822 051 20104 100K00 5% 0,1W 6350 5322 130 31928 BAS16 6367 4822 051 20103 100K00 5% 0,1W 6350 5322 130 31928 BAS16 63674 8422 051 20103 100K00 5% 0,1W 6350 5322 130 31928 BAS16 63674 8422 051 20103 100K00 5% 0,1W 6350 5322 130 31928 BAS16 63674 8422 051 20103 100K00 5% 0,1W 6350 5322 130 31928 BAS16 63674 8422 051 20103 100K00 5% 0,1W 6350 5322 130 31928 BAS16 63674 8422 051 20103 100K00 5% 0,1W 6350 5322 130 31928 BAS16 63674 8422 051 20104 100K00 5% 0,1W 6450 5322 130 31928 BAS16 6450 5322 130 319 | - | _ | | → | # | |
|--|-------|----------------|---------------------|----------|----------------|------------------------|
| 3868 4822 051 20103 100,05 % 0,1W 620 532; 130 31928 BAS16 6367 4822 051 20104 100,05 % 0,1W 620 532; 130 31928 BAS16 63672 4822 051 20104 100,05 % 0,1W 620 532; 130 31928 BAS16 63672 4822 156 20104 100,05 % 0,1W 620 532; 130 31928 BAS16 63672 4822 156 20104 100,05 % 0,1W 63676 4822 156 20104 100,05 % 0,1W 63676 4822 156 20214 100,05 % 0,1W 6751 532; 130 31928 BAS16 6452 532; 130 31928 BAS16 6457 532; 130 30684 1N4002 6750 532; 130 536; 130 | 3667 | 4822 116 52252 | 180KΩ 5% 0.5W | 6051 | | BB419 |
| 8707 4822 051 20122 2 (X)20 5 % 0,1 W 620 5 5322 130 31928 BAS16 83671 4822 051 20104 100K(D0 5% 0,1 W 620 5 5322 130 31928 BAS16 6350 5322 130 31928 BAS16 6354 4822 050 24703 47KΩ 5% R2SJ 6454 5322 130 31928 BAS16 6354 4822 050 24703 47KΩ 5% R2SJ 6454 5322 130 31928 BAS16 6354 4822 116 52221 6 100K(D 5% R2SJ 6450 5322 130 31928 BAS16 6450 5322 130 30684 1400000 540 500 500 500 500 500 500 500 5 | 3668 | | | | | |
| 8871 4822 051 20103 10K000 5% 0,1W 635 5322 130 31928 BAS16 1872 4822 051 20104 100K000 5% 0,1W 635 5322 130 31928 BAS16 1872 4822 156 20240 100K00 5% 0,1W 635 5322 130 31928 BAS16 1874 4822 156 20240 100K0 5% R25J 645 4822 130 31928 BAS16 1874 4822 116 52214 30K0 5% R25J 645 4822 130 31928 BAS16 1874 4822 116 52214 30K0 5% R25J 645 4822 130 31928 BAS16 1874 4822 116 52214 30K0 5% R25J 645 4822 130 30988 RD4 7JSB1 18880 4822 051 20104 100K0 5% 0,1W 645 5322 130 31928 BAS16 18080 4822 051 20104 100K0 5% 0,0W 645 5322 130 30864 11M002 1875 4822 051 20104 100K0 5% 0,0W 675 5322 130 30864 11M002 1875 4822 051 20104 100K0 5% 0,0W 675 5322 130 30864 11M002 1875 4822 051 20104 100K00 5% 0,1W 675 5322 130 30864 11M002 1875 4822 051 20104 100K00 5% 0,1W 675 5322 130 30864 11M002 1875 4822 051 20153 15K000 5% 0,1W 675 5322 130 30864 11M002 1875 4822 051 20153 15K000 5% 0,1W 675 5322 130 30864 11M002 1875 4822 051 20153 15K000 5% 0,1W 675 5322 130 30864 11M002 1875 4822 051 20153 15K000 5% 0,1W 675 5322 130 30864 11M002 1875 4822 051 20153 15K000 5% 0,1W 675 5322 130 30864 11M002 1875 4822 051 20153 15K000 5% 0,1W 675 5322 130 30864 11M002 1875 4822 051 20153 15K000 5% 0,1W 675 5322 130 30864 11M002 1875 4822 130 2595 11H004400A512Z 1875 4822 051 20133 10K0 5% 0,0W 6756 4822 130 82595 11H004400A512Z 1875 4822 1275 8398 1881 1875 4822 130 82595 11H004400A512Z 1875 4822 1272 8275 8398 1881 1875 4822 130 82595 11H004400A512Z 1875 4822 1275 | | | | | | |
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| 676 4 822 116 40221 1 82234 100KΩ 5% R2SJ 6455 5322 130 31937 82 8AS16 676 4822 116 52234 100KΩ 5% R2SJ 6457 5322 130 31928 BAS16 6769 4822 116 52271 33KΩ 5% 0,5W 6457 5322 130 31928 BAS16 6769 4822 051 20104 100KΩ 5% 0,0W 6458 5322 130 31928 BAS16 6880 4822 051 20104 100KΩ 5% 0,0W 6750 5322 130 30884 11M002 75750 4822 051 20104 100KΩ 5% 0,0W 6755 5322 130 30884 11M002 75751 4822 051 20104 100KΩ 5% 0,1W 6752 5322 130 30884 11M002 75752 4822 051 20104 100KΩ 05% 0,1W 6752 5322 130 30884 11M002 75752 4822 051 20104 100KΩ 05% 0,1W 6755 5322 130 30884 11M002 75752 4822 051 20104 100KΩ 05% 0,1W 6755 5322 130 30884 11M002 75753 4822 051 20104 100KΩ 05% 0,1W 6755 5322 130 30884 11M002 75754 4822 051 20105 15KΩ 05% 0,1W 6755 5322 130 30884 11M002 75754 4822 051 20153 15KΩ 005 5% 0,1W 6755 5322 130 30884 11M002 75756 4822 051 20153 15KΩ 005 5% 0,1W 6756 4822 130 82595 TLHO4400AS12Z 75759 4822 051 20133 10KΩ 5% 0805 6756 4822 130 82595 TLHO4400AS12Z 75759 4822 051 20133 10KΩ 5% 0805 6756 4822 130 82595 TLHO4400AS12Z 75759 4822 051 20133 10KΩ 5% 0805 6759 4822 130 82595 TLHO4400AS12Z 7576 4822 051 20133 10KΩ 5% 0805 6759 4822 130 82595 TLHO4400AS12Z 7576 4822 051 20133 10KΩ 5% 0805 6759 4822 130 82595 TLHO4400AS12Z 7576 4822 152 20577 10µH 10% 6765 4822 130 82595 TLHO4400AS12Z 7576 4822 152 20577 10µH 10% 6765 4822 130 82595 TLHO4400AS12Z 7576 4822 152 20577 30µH 10% 6766 4822 130 82595 TLHO4400AS12Z 7576 4822 152 20577 30µH 10% 6765 4822 130 82595 TLHO4400AS12Z 7576 4822 152 20577 30µH 10% 6765 4822 130 82595 TLHO4400AS12Z 7576 4822 152 20577 30µH 10% 6765 4822 130 82595 TLHO4400AS12Z 7576 4822 130 82595 TLHO4400AS12Z 7577 4822 130 82595 TLHO4400AS12Z 75 | 6/2 | 4822 051 20104 | 100KΩ00 5% 0,1W | 6350 | 5322 130 31928 | BAS16 |
| 6767 4822 16 40221 80,0221 80,0221 80,0221 80,0221 80,0221 80,0231 80,045 | 673 | 4822 116 40219 | PTH59F04BH471TS | 6351 | 5322 130 31928 | BAS16 |
| 6876 4822 116 40221 612 20% 6452 5322 130 31928 6157 4822 116 52234 100KΩ 5% 0,5W 6454 4822 130 80968 6104 7382 738 6104 7382 738 614 7382 738 614 7382 738 614 7382 738 614 7382 738 614 7382 738 614 7382 738 614 7382 738 | 674 | 4822 050 24703 | 47KΩ 5% R25J | 6450 | 5322 130 31937 | BZX84-C4V7 |
| 1877 4822 116 52234 100KL 5% R25J 6457 5322 130 31928 BAS16 6457 5322 130 31928 BAS16 8457 5322 130 31928 BAS16 8457 5322 130 31928 BAS16 8457 5322 130 31928 BAS16 6457 5322 130 31928 BAS16 6550 6532 65 20104 100KL 5% 0805 6750 5322 130 30884 1N4002 6751 5322 130 41893 5000 6751 5322 130 41893 5000 6751 5322 130 41893 5000 6751 5322 130 41893 5000 6751 5322 130 41893 5000 6751 5322 130 41893 500 | 676 | | 8Ω2 20% | 6452 | 5322 130 31928 | BAS16 |
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| 1881 4822 051 20104 100KG 5%, 0605 6750 5322 130 30684 1N4002 1N750 4822 051 20104 100KG 0% 0,1W 6751 5322 130 30684 1N4002 1N750 4822 051 20104 100KG 0% 0,1W 6754 5322 130 30684 1N4002 1N750 4822 051 20153 15KG 00 5% 0,1W 6754 5322 130 30684 1N4002 1N4004 1N4002 1N750 4822 051 20153 15KG 00 5% 0,1W 6755 5322 130 30684 1N4002 1N4004 1N40 | | | | | | |
| 3881 4822 051 20104 100KL 5%, 0605 6751 5322 130 30684 1N4002 3751 4822 051 20104 100KL 05% 0.1W 6752 5322 130 30684 1N4002 3751 4822 051 20104 100KL 05% 0.1W 6752 5322 130 30684 1N4002 3752 4822 051 20153 15KL 05% 0.1W 6754 5322 130 30684 1N4002 3753 4822 051 20153 15KL 05% 0.1W 6755 5322 130 30684 1N4002 3756 4822 051 20153 15KL 05% 0.1W 6755 5322 130 30684 1N4002 3756 4822 051 20153 15KL 05% 0.1W 6755 5322 130 30684 1N4002 3756 4822 051 20362 5,6KL 5% 0,1W 6756 5322 130 30586 1N4002 3756 4822 051 20393 39KL 5% 0,1W 6756 5322 130 30586 1N4002 3758 4822 051 20393 39KL 5% 0,1W 6756 5322 130 34595 TLHO4400AS12Z 3758 4822 051 20393 39KL 5% 0,1W 6756 5322 130 34595 TLHO4400AS12Z 3758 4822 051 20333 3,3KL 5% 0,1W 6756 5322 130 34595 TLHO4400AS12Z 3758 4822 051 20332 3,3KL 5% 0,1W 6759 4822 130 82595 TLHO4400AS12Z 3758 4822 152 20677 10µH 10% 6760 4822 130 82595 TLHO4400AS12Z 5752 4822 152 20678 33µH 6754 4822 152 20678 33µH 6756 4822 152 20682 68µH 10% 6769 4822 130 82595 TLHO4400AS12Z 5557 5075 1N4N 6756 4822 152 20678 33µH 6756 4822 152 20678 33µH 6756 4822 152 20682 68µH 10% 6769 4822 130 82595 TLHO4400AS12Z 5557 5075 4822 122 20878 88µH 10% 6769 4822 130 82595 TLHO4400AS12Z 5557 5075 1N4N 6756 4822 130 82595 TLHO4400AS12Z 5557 5075 1N4N 6756 4822 130 82595 TLHO4400AS12Z 5557 5082 12 1083 55610 4822 242 72527 CST4,00MGW-TF01 6762 4822 130 82595 TLHO4400AS12Z 5555 5482 130 13928 BAS16 6756 4822 130 | | 4822.051.20102 | 10K000 F8/ 0 1M | 6459 | 5333 130 3103B | DAS16 |
| 3750 4822 051 20104 100KG0 5% 0,1W 6751 5322 130 30684 1N4002 3752 4822 051 20104 100KG00 5% 0,1W 6752 5322 130 30684 1N4002 3753 4822 051 20103 15KG00 5% 0,1W 6755 5322 130 30684 1N4002 3753 4822 051 20153 15KG00 5% 0,1W 6755 5322 130 30684 1N4002 3756 4822 051 20153 15KG00 5% 0,1W 6755 5322 130 30684 1N4002 3756 4822 051 20153 15KG00 5% 0,1W 6755 5322 130 30684 1N4002 3757 4822 051 20153 39KG 5% 0,1W 6756 4822 130 82595 TLHO4400AS12Z 3759 4822 051 20103 39KG 5% 0,1W 6757 4822 130 82595 TLHO4400AS12Z 3759 4822 051 20103 10KG 5% 0805 6758 4822 130 82595 TLHO4400AS12Z 3759 4822 051 20103 10KG 5% 0805 6759 4822 130 82595 TLHO4400AS12Z 3761 4822 051 20103 10KG 5% 0805 6759 4822 130 82595 TLHO4400AS12Z 3761 4822 051 20103 10KG 5% 0805 6759 4822 130 82595 TLHO4400AS12Z 3762 4822 116 52186 22G 5% R25.1 6761 4822 130 82595 TLHO4400AS12Z 3762 4822 116 52186 22G 5% R25.1 6761 4822 130 82595 TLHO4400AS12Z 3763 4822 125 20677 10µH 10% 6764 4822 130 82595 TLHO4400AS12Z 3764 4822 157 52007 10µH 10% 6764 4822 130 82595 TLHO4400AS12Z 3765 4822 152 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 3766 4822 152 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 3767 4822 152 20682 6.15µH 6% 6766 4822 130 82595 TLHO4400AS12Z 3768 4822 152 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 3769 4822 152 20682 6.15µH 6% 6766 4822 130 82595 TLHO4400AS12Z 3760 4822 152 20678 33µH 5767 4822 130 82595 TLHO4400AS12Z 3761 4822 242 72766 107778B(10,7MHZ) 6776 4822 130 82595 TLHO4400AS12Z 3761 4822 242 72766 10777BB(10,7MHZ) 6776 4822 130 82595 TLHO4400AS12Z 3761 4822 242 72766 10777BB(10,7MHZ) 6776 4822 130 82595 TLHO4400AS12Z 3761 4822 242 72766 10777BB(10,7MHZ) 6776 4822 130 82595 TLHO4400AS12Z 3761 4822 242 72767 10µH 10% 6768 4822 130 82595 TLHO4400AS12Z 3761 4822 242 72767 10µH 10% 6768 4822 130 82595 TLHO4400AS12Z 3761 4822 242 72767 10µH 10% 6768 4822 130 82595 TLHO4400AS12Z 3761 4822 242 72767 10µH 10% 6768 4822 130 82595 TLHO4400AS12Z 3761 4822 242 72767 10µH 10% 6768 4822 130 82595 TLHO4400AS12Z 3761 4822 247 7267 10µH 10% 6768 4822 130 82595 | | | | | | |
| 3751 4822 051 20104 100KQ00 5% 0.1W 6752 5322 130 31928 BAS16 100KQ00 5% 0.1W 6754 5322 130 30684 1N4002 3753 15KQ00 5% 0,1W 6755 4822 130 30684 1N4002 3756 4822 051 20153 15KQ00 5% 0,1W 6755 5322 130 30684 1N4002 3756 4822 051 20153 15KQ00 5% 0,1W 6756 5322 130 30684 1N4002 3757 4822 051 20153 39KQ 5% 0,1W 6756 5322 130 3459 1N5059 3758 4822 051 20333 39KQ 5% 0,1W 6756 5322 130 3459 1N5059 3758 4822 051 20333 39KQ 5% 0,1W 6756 5322 130 3459 1N5059 3758 4822 051 20333 39KQ 5% 0,1W 6756 5322 130 3459 1N5059 3760 4822 051 20133 10KQ 5% 0805 6759 4822 130 82595 TLHO4400AS12Z 422 2015 2016 2016 2010 3 10KQ 5% 0805 6759 4822 130 82595 TLHO4400AS12Z 5762 4822 152 20677 10µH 10% 6760 4822 130 82595 TLHO4400AS12Z 6762 4822 152 20677 10µH 10% 6763 4822 130 82595 TLHO4400AS12Z 6762 4822 152 20678 33µH 6760 4822 130 82595 TLHO4400AS12Z 5054 4822 152 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 5054 4822 155 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 5054 4822 155 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 5054 4822 155 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 5054 4822 155 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 5054 4822 155 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 5056 4822 152 20682 6.15µH 6% 6767 4822 130 82595 TLHO4400AS12Z 5056 4822 152 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 5057 4822 152 20678 33µH 6767 4822 130 82595 TLHO4400AS12Z 5057 4822 152 20678 50µH 10% 6767 4822 130 82595 TLHO4400AS12Z 5057 4822 152 20678 50µH 10% 6767 4822 130 82595 TLHO4400AS12Z 5056 4822 152 20678 50µH 10% 6767 4822 130 82595 TLHO4400AS12Z 5056 4822 152 20678 50µH 10% 6767 4822 130 82595 TLHO4400AS12Z 5056 4822 152 20678 50µH 10% 6767 4822 130 82595 TLHO4400AS12Z 5057 4822 242 7257 50 50 50 50 50 50 50 50 50 50 50 50 50 | | | | 1 | | |
| 3752 4822 051 20104 100KG00 5% 0,1W 6754 5322 130 30684 1N4002 3753* 4822 051 20153 15KG00 5% 0,1W 6755 5322 130 30684 1N4002 3756* 4822 051 20153 15KG00 5% 0,1W 6755 5322 130 30684 1N4002 3756* 4822 051 20163 15KG00 5% 0,1W 6755 5322 130 30684 1N4002 37576 4822 051 20582 5,6KG 5% 0,1W 6756 5322 130 30684 1N4002 37576 4822 051 20393 39KG 5% 0,1W 6756 5322 130 3459 1N5059 1N5059 3757 4822 051 20393 39KG 5% 0,1W 6757 4822 130 82595 TLHO4400AS12Z 4756 4822 130 82595 TLHO4400AS12Z 47576 4822 051 20393 39KG 5% 0,1W 6757 4822 130 82595 TLHO4400AS12Z 4822 051 20393 39KG 5% 0,1W 6757 4822 130 82595 TLHO4400AS12Z 4822 116 52186 22G 5% R25.J 6761 4822 130 82595 TLHO4400AS12Z 4822 116 52186 22G 5% R25.J 6761 4822 130 82595 TLHO4400AS12Z 57614 4822 13 | | | | 1 | | |
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| 7456 | 4822 209 83159 | LA2000 | |
| 7457 | 4822 900 10265 | RDS MEMORY | |
| 7458 | 4822 900 10372 | COMMUNUCATION | |
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| 7461 | 5322 130 41983 | BC858B | |
| 7462 | 5322 130 41983 | | |
| | | BC858B | |
| 7462 | 5322 209 11578 | PCF8574T | 1 |
| 7463 | 5322 130 41983 | BC858B | 1 |
| 7464 | 5322 209 11129 | PCF8576T PHIN | |
| | | | Į. |
| 7483 | 5322 209 11578 | PCF8574T | 1 |
| | | | 1 |
| 7484 | 5322 209 11578 | PCF8574T | 1 |
| 7485 | 5322 209 11578 | PCF8574T | |
| 7550 | 4822 209 73396 | LA3600 | 1 |
| 7551 | 4822 209 73396 | LA3600 | |
| | .022 200 ,0000 | 2,0000 | |
| 7550 | 1000 000 7000 | W | |
| 7552 | 4822 209 72892 | TEA6310T/V5 | |
| 7553 | 5322 209 11102 | SM IC HEF4052BT | |
| 7554 | 4822 209 30708 | LC7523 | |
| 7650 | 4822 209 31328 | | 1 |
| 7651 | | IC FL26263 (TDA7374V | 1 |
| 1001 | 4822 209 31328 | IC FL26263 (TDA7374V | |
| | | | |
| 7652 | 4822 130 40854 | BC327 | |
| 7652 | 5322 209 14542 | HEF4066BT | |
| 7654 | 5322 130 41982 | BC848B | |
| | | | 1 |
| 7655 | 5322 130 44864 | BC517 | |
| 7656 | 5322 130 41982 | BC848B | |
| | | | 1 |
| 657 | 5322 130 41982 | BC848B | |
| 658 | 5322 130 44864 | BC517 | |
| | | | |
| 660 | 5322 130 44864 | BC517 | |
| 661 | 5322 130 41982 | BC848B | |
| 662 | 5322 130 41982 | BC848B | |
| | | | |
| 663 | 4822 130 e225e | SM SET MTDoors 5 | |
| | 4822 130 63256 | SM FET MTP2955LF | |
| 751 | 5322 130 41982 | BC848B | |
| 752 | 5322 130 41983 | BC858B | |
| 753 | 4822 130 62651 | ON4414 | |
| 754 | 4822 209 30016 | L4901A | |
| | .022 200 000 10 | F-490 IV | |
| 766 | 1000 000 | | |
| 755 | 4822 209 72227 | L4916 | |
| 756 | 4822 209 63938 | L4918 | 1 |
| 757 | 5322 130 61677 | BC875 | |
| | 0.077 | | |
| | | | |
| | | | |
| | | | |
| | * = ONLY 22DC982/0 | 52B | |
| | # = ONLY 22DC962/ | | |
| | | | |
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26

Service Service Service Version 2.2 Version 2.5

ServiceManual

12 V 🗇

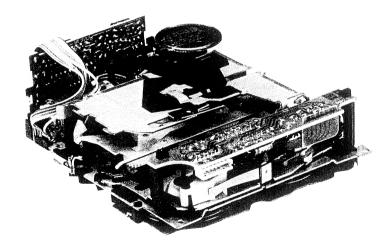


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DECK - DESCRIPTION

The SCA - versions 2.2 and 2.5 are full logic servo controlled Autoreverse Tapedecks, containing the mechanism, servo- and capstan motor, preamplifier (Audio - PCB) and microprocessor controlled electronics. The following features are available:

FEATURES:

PLAYBACK HEAD:

Dolby head with Philips AZIMUTH guiding. Fix mounting,

no screws, no alignment necessary.

CASSETTE INSERTION:

The cassette is inserted until one feels klick and conterforce

CASSETTE LOADING:

After a manual insertion distance of about 6 mm the cassette

moves motor controlled to the play position.

TAPF TIGHTENING:

Before a new loaded cassette starts play or before a cassette is ejected the tape transport mechanism will tighten the tape.

TAPE SALAD PROTECTION:

The tape transport is continuously controlled by microcomputer via servo motor. If there is irregular tapetransport, the mechanism will change the play-direction and correct the tapetransport. If there is no correction possible, it tries it again up to maximum

6 times. Then the cassette will be ejected.

TAPE TENSION:

Nearly constant during play (from beginning until end of tape) due to a constant tape force realized by the servo motor.

EJECT:

After the eject command is activated, the cassette is carried back via a servo motor controlled system to the defined controlled

loading position (for SCA 2.2 current consumtion will be reduced).

TAPE END:

Automatic reversion at tape end. The servo motor changes direction of rotation and therefore the opposite pinch roller and the

driving wheel transports the tape quickly (< 0.8 sec) in the

other direction (no movement of headplate).

MANUAL REVERSE:

If the reverse command is activated, the deck changes to the opposite play direction. (< 0.8 sec) Same function as tape end.

AUTOMATIC TAPE SELECTION:

Ferro, Metal and Chromium tape will be automatically detected. The "ME/FE" for switching preamplifier equalization has the

high - Metal or Chromium tape

low - Ferro tape.

The state command will be sent to the bus interface too.

MUSIC SEARCH SYSTEM:

If the MSS-function is activated, the head and pinchroller go back into the wind position. Tape transport is fast and the head detects modulation of the tape. If a modulation pause > 3 sec is

tape transport remains fast at the next modulation start.

PEOGRAMMABLE MSS VIA

MSS CONTOL:

Depending on the number of times the MSS-command is sent, n songs be skipped and the next played (n times = n songs

skipped). Tape end deletes this function.

64597

2

FFW - FRW FUNCTION:

FFW = wind in previous play direction

FRW = wind in opposite play direction If the FFW/FRW command is activated, the head plate

falls back in the wind position. Servo motor speed is increased.

STAND BY:

a) power off stand by

If the power supply is switched off, head and pinch roller

are completely lifted from the tape.

(No current is supplied.)

b) manual stand by

If the stand by command is activated, the deck is switched

off (motor stopped), the head and pinch rollers are

completely lifted from tape.

1. MECHANICAL SPECIFICATION

Operating positions:

Any position from horizontal -30° to standing vertically

on the rear side.

Tape speed:

4.76 cm/sec

Wow and flutter:

< 0,3% unweighted

Winding time

test tape: RCA 118

< 120 sec

Eiect time:

< 1.6 sec

2. ELECTRICAL SPECIFICATION

Voltage

min 10.0 V max 16.0 V

current - playback

220 mA

current - fast wind

100 - 150 mA

current - eject, standby

SCA 2.2: 50 μA

SCA 2.5: 12 mA

Hold in voltage

8.0 V

Capstan motor

14,4 V DC

Servo motor

2 V DC Play

11,5 V DC Fast, servo

PLAYBACK CROSSTALK

ch 1-2/3-4

35 - 40 dB 45 - 50 dB

ch. 2 - 3

SCA 2 2/2 5

REPAIRINSTRUCTIONS

Protect the tape-decks against ESD.

For demounting see figures 1 to 7.

Plastic catches and snap connections must be released careful with a screwdriver or tweezers.

Disks (Pos.60) must be renewed after demounting.

Before taking out the cassette carrier, put the right leg of the eject spring (Pos.503) into the mounting position, otherwise it will hit against the guidance and breaks it (see figure 8).

Check that segments (Pos.66) and bracket (Pos.71) are fitted in the correct position. Then unlock the segments (see figure 6).

After fitting switch lever (Pos.72) the leaf spring must be pressed over the black lug of the chassis (see figure 7).

For lubrication see indications in the exploded view.

To clean tape transport and head only use wet cleaning ta-

Tools required:

test cassette SBC 420 test cassette SBC 419 (4822 397 30071) (4822 397 30069) (4822 395 30054)

friction test cassette puller for clutch (fig.2)

(4822 395 60039)

wow & flutter meter

ADJUSTMENTS

Frictions:

Adjust potentiometer Pos.3415 until friction-test-cassette shows 6,5 Nmm to 9,5 Nmm in NOR-direction (after 2 minutes), and 7 Nmm in REV-direction.

The supplying reel drag must be 0,3 Nmm to 0,7 Nmm. If values deviates, check lubrication and carrier-spindle (Pos.62).

Wow and flutter, tape speed:

Connect wow and flutter meter to loudspeaker outputs and play the 3150 Hz signal track of test cassette SBC 420. Value should be max. 0,3 %. Tape speed can be ad-

justed with motor potentiometer A. Use a screwdriver with an insulated shaft (see figure 8)!

If the value of wow and flutter is not correct, check motors (Pos.1002, 1003), pressure rollers (Pos.68, 70), flywheels (Pos.77), belt (Pos.79), pulley (Pos.76) and

spring torwartstraction (Pos.65).

Check also the distance between bracket of pressure roller NOR-side and the adjustable excenter when the deck plays in NOR-direction (see figure 10).

Output level:

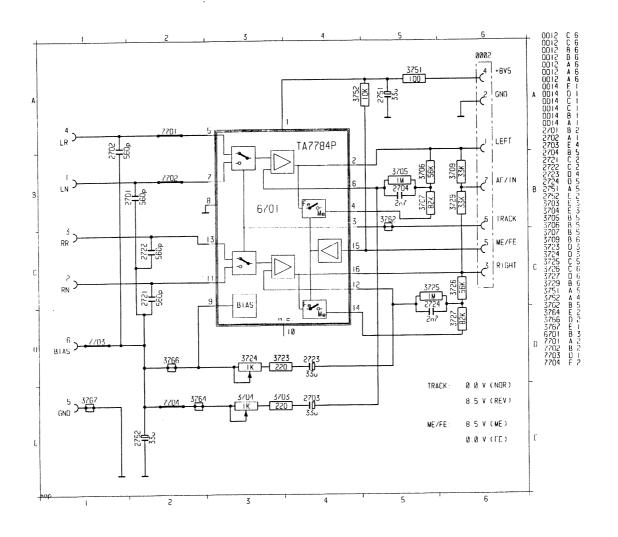
Play track 400 Hz - 200 nWb/m of testcassette SBC 419. For left channel measure at pin 1 of connector 0002, align potentiometer (Pos.3704). For right channel measure at pin 3 of connector 0002,

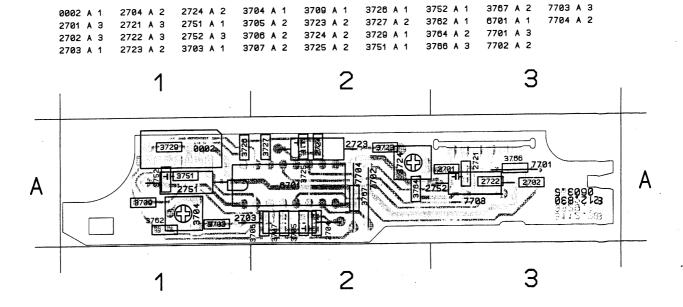
align potentiometer (Pos.3724).

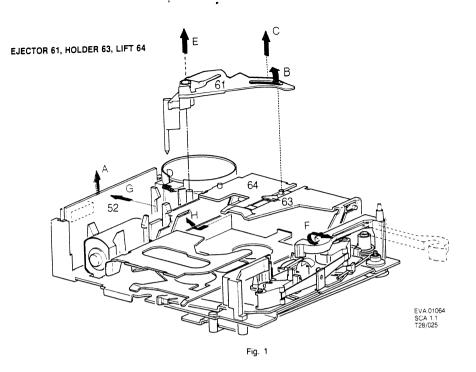
SCA 2.2: 38.8 mV +/- 1 dB SCA 2.5: 52,0 mV +/- 1 dB

64599 SS

PCS 64598







CLUTCH 51, SWITCH 53, GEAR WHEEL 58, CARRIER 62

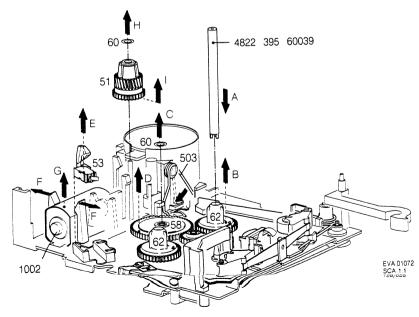
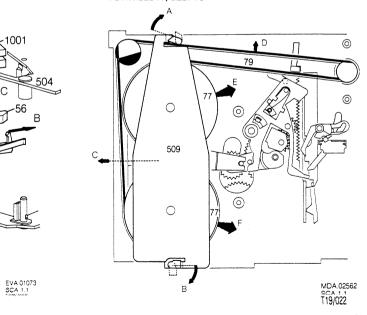


Fig. 2

Fig. 3 FLYWHEEL 77, BELT 79





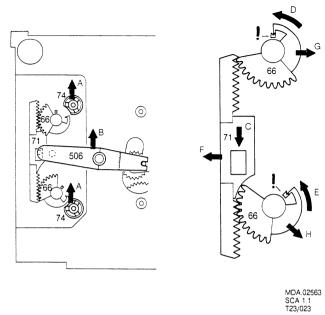


Fig. 6

SWITCH 54, SWIVEL GEAR 69, LEVER 72

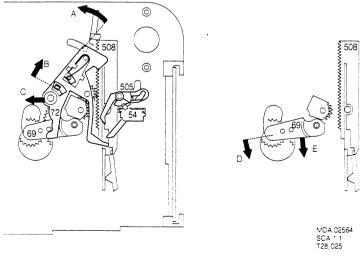
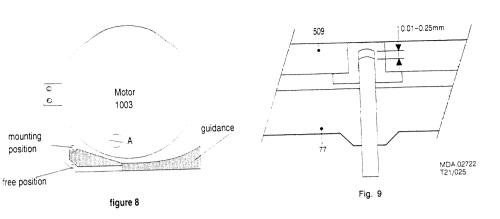


Fig. 7

PCS 64603

ANCHOR 56/78, RELAY 1001

D(2x)



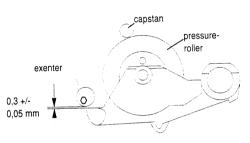
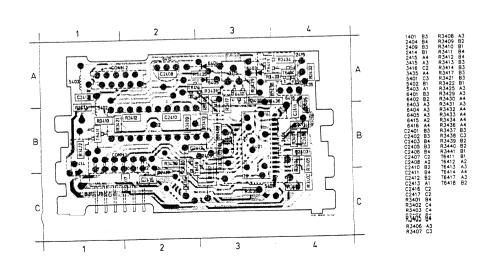


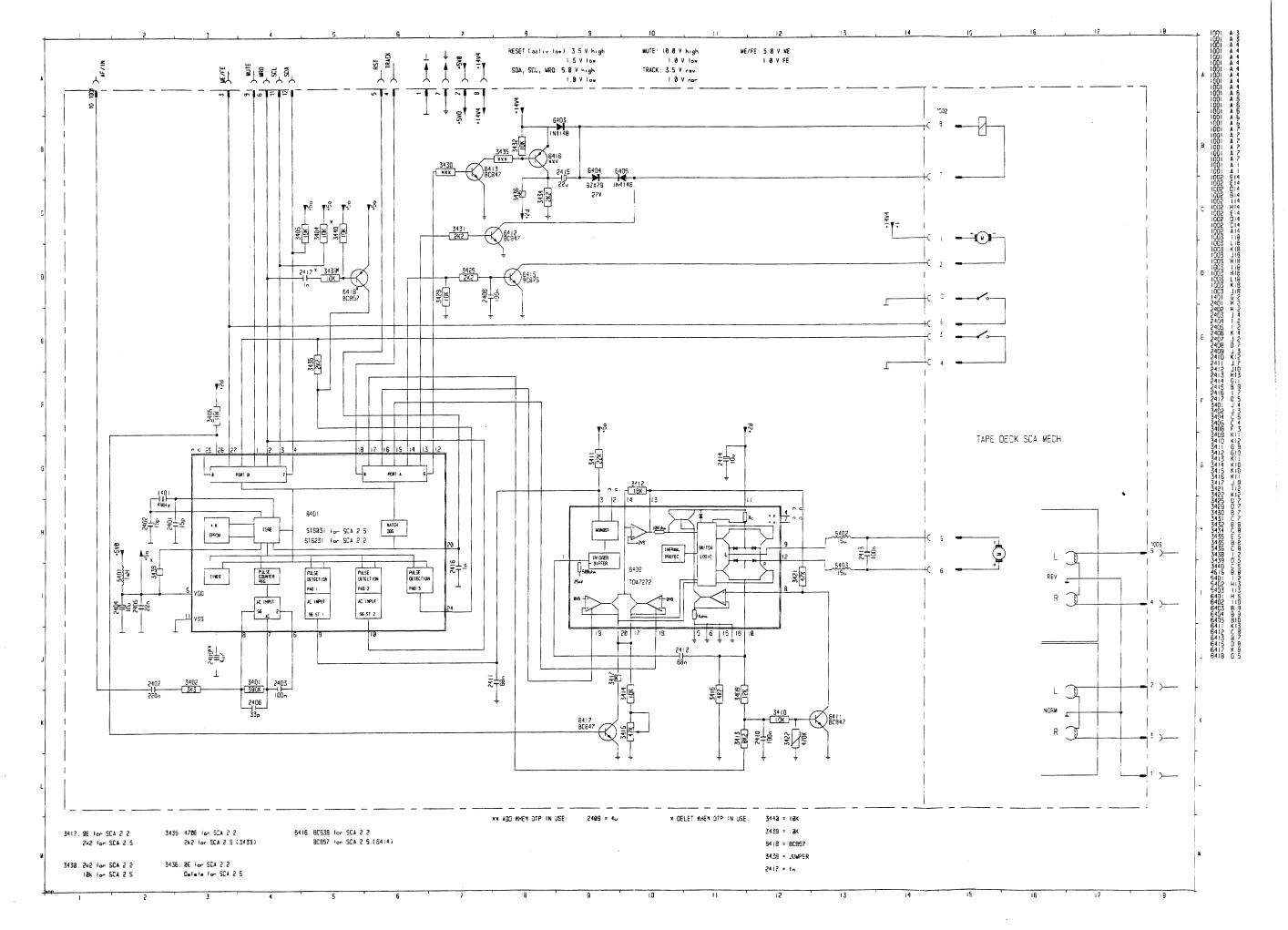
figure10

SCA 2.2/2.5

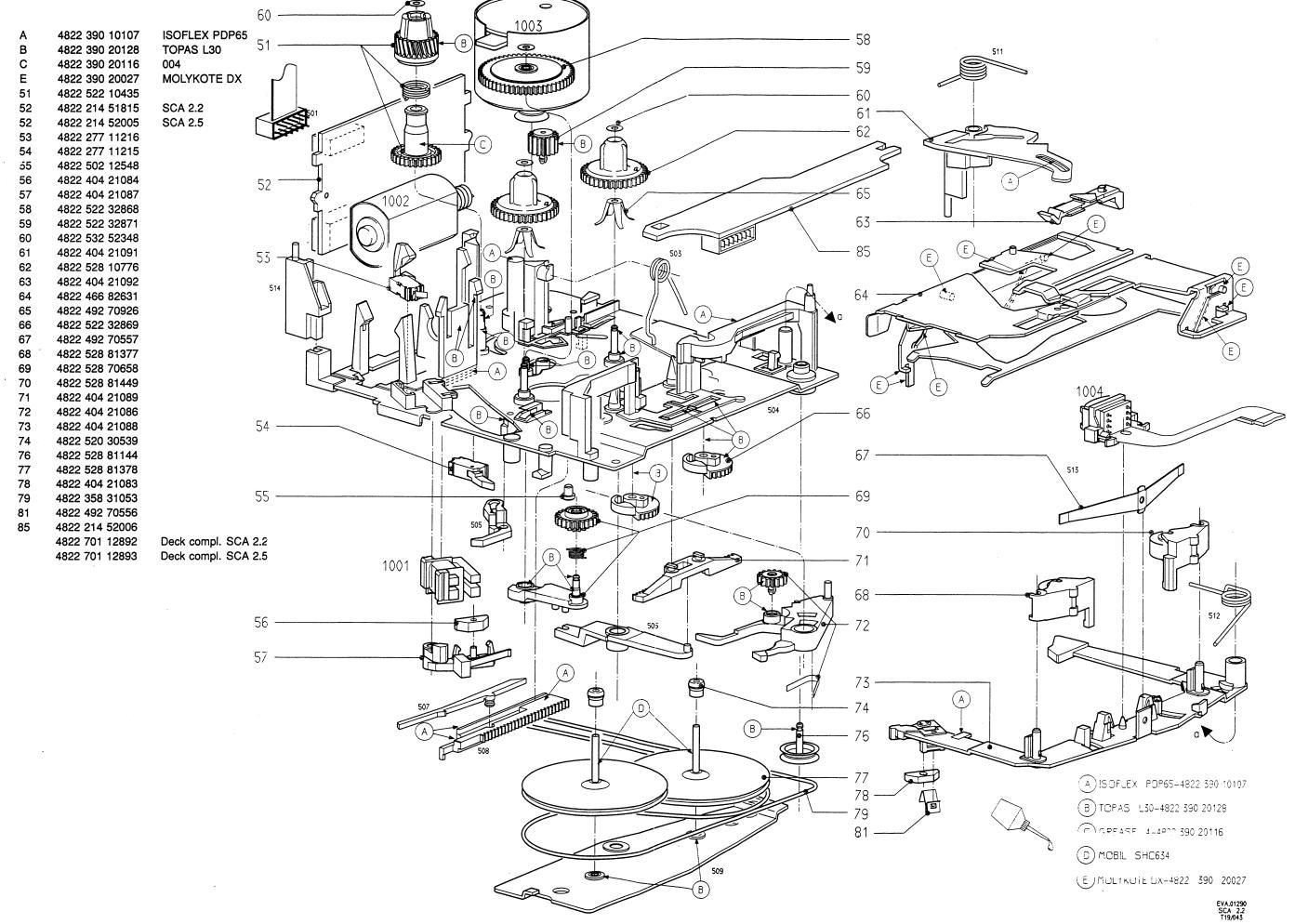


| | special for version 2.5 | equal for both versions | special for version 2.2 |
|---|---|--|---|
| 9 | · | Pos. 6401 S6D3 | |
| | 1: 2: 3: 4: 5: 6: 7: 8: 9: 0,0 (Sb) 10: 11: 12: 0,0 / 5,0 (W) 13: 5,0 14: 5,0 (P) 15: 16: 17: 18: 19: 20: 21: 22: 23: 5,0 24: 0,0 25: 26: 27: 28: | 3,7 / 0,1 (P) 5,0 5,0 5,0 5,0 5,0 2,5 2,50,0 (Sb) 2,50,0 (Sb) 0,1 (P) / 0,7 (W) 5,0 GND 0,0 (Sb) 0,0 5,0 (N) / 0,0 (R) 0,0 (N) / 5,0 (R) 5,0 (P) / 0,2 (W) 0,0 (N) / 5,0 (R) 2,5 5,0 2,5 4 MHz 5,0 n.c. 0,1 0,0 (FE) / 5,0 (ME) 0,0 / 5,0 (Sb) | 1,2 (Sb) 4,7 / 0,0 (Sb) 4,7 4,7 (P) 5,0 (Sb) 5,0 V (Sb) 0,0 (Sb)0,1 0,0 (Sb) |
| | | Pos. 6402 SCA 5058 | |
| | 1: 2: 3: 0,0 (Sb) 4: 5: 6: 7: 8: 9: 10: 11: 12: 13: 2,3 (Sb) 14: 15: 16: 17: 18: 19: 20: | 0,0 n.c. 0,1 (P) / 0,7 (W) n.c. GND GND n.c. 0,0 (P) / 3,5 (W) 3,5 (PN) / 1,3 (PR) / 10,6 (WN) / 1,0 (W 0,5 (P) / 0,25 (W) 12,0 1,3 (PN) / 3,5 (PR) / 1,0 (WN) / 10,6 (W 3,5 2,3 GND GND GND 0,8 / 0,0 (Sb) 5,0 (N) / 0,0 (R) 0,8 / 0,0 (Sb) | |
| | PCS 64605 | 11 | SCA 2.2/ |

| | special for version 2.5 | equal for both versions | special for version 2.2 |
|----------------|----------------------------------|---|---------------------------------------|
| | | Pos. 6411 BC847 | |
| B: C: E: | 2,3 (Sb) | 0,65 (P) / 0,2 (W) / 0,0 (Sb) 0,0 (P) / 3,5 (W) GND | 0,0 (Sb) |
| | | Pos. 6412 BC847 | |
| B: C: E: | | 0.8 / 0,0 (Sb) 0,1 / 12,0 (Sb) GND | |
| | | Pos. 6413 BC847 | |
| B: C: | 0,0 / 0,7 (W) 12,0 / 0,0 (W) | | 0,8 / 0,0 (Sb) 0,1 / 12,0 (Sb) |
| E: | | GND | · · · · · · · · · · · · · · · · · · · |
| | | Pos. 6415 BC875 | |
| B: C: E: | | 0,0 / 1,5 (P) 11,0 / 0,8 (P) GND | |
| | BC857 | Pos. 6416 | BC638 |
| B: C: | 12,0 0,0 / 12,0 (W) | | 11,2 / 12,0 (Sb) |
| E: | 0,07 12,0 (**) | 12,0 | 12,0 / 0,0 (Sb) |
| | | Pos. 6417 BC847 | |
| B: C: E: | | 0,1 0,8 / 0,0 (Sb) GND | |
| • | alues in Volt-DC, measured agai | not CND | |
| All va | alues in voit-DC. measured adail | nsi GND | |



PCS 64607



ELECTRICAL PARTS

| Capac | itor | | | |
|--------------------------------------|--|-------------------------------------|-----------------------------------|------------------------------|
| 2401 | 5322 122 33869 | 15pF | 5% | 63V |
| 2402 | 5322 122 33869 | 15pF | 5% | 63V |
| 2403 | 4822 122 33496 | 100nF | 10% | 63V |
| 2404 | 4822 124 20697 | 10µF | 50% | 25V |
| 2405 | 5322 122 32654 | 22nF | 10% | 63V |
| 2406 | 5322 122 32659 | 33pF | 5% | 50V |
| 2407 | 4822 122 32916 | 220nF | 10% | 63V |
| 2408 | 4822 122 33496 | 100nF | 10% | 63V |
| 2410 | 4822 122 33496 | 100nF | 10% | 63V |
| 2411 | 4822 122 32891 | 68nF | 10% | 63V |
| 2412 | 4822 122 32891 | 68nF | 10% | 63V |
| 2413 | 4822 122 33496 | 100nF | 10% | 63V |
| 2414 | 4822 124 20697 | 10μF | 50% | 25V |
| 2415 | 4822 124 20698 | 22μF | 50% | 25V |
| 2416 | 4822 122 33178 | 1nF | 20% | 50V |
| 2701 | 4822 122 33173 | 560pF | 10% | 50V |
| 2702 | 4822 122 33173 | 560pF | 10% | 50V |
| 2703 | 4822 124 20688 | 33μF | 50% | 16V |
| 2704 | 4822 122 33176 | 2.7nF | 20% | 50V |
| 2721 | 4822 122 33173 | 560pF | 10% | 50V |
| 2722 | 4822 124 20688 | 560pF | 10% | 50V |
| 2723 | | 33µF | 50% | 16V |
| 2724 | | 2.7nF | 20% | 50V |
| 2751 | | 33µF | 50% | 16V |
| 2752 | | 33µF | 50% | 16V |
| Resis | tor | | | |
| 3401 3402 3403 3404 3405 | 4822 051 20394 4822 051 20332 4822 051 20103 4822 051 20103 4822 051 20103 | 390k 3k3 10k 10k 10k | 5% 5% 5% 5% | 0.1W 0.1W 0.1W 0.1W |
| 3406 | 4822 051 20103 | 10k | 5% | 0.1W |
| 3409 | 4822 051 20123 | 12k | 5% | 0.1W |
| 3410 | 4822 051 20103 | 10k | 5% | 0.1W |
| 3411 | 4822 051 20223 | 22k | 5% | 0.1W |
| 3412 | 4822 051 20183 | 18k | 5% | 0.1W |
| 3413 3414 3415 3416 3417 | 4822 051 20822 4822 051 20272 4822 100 11878 4822 050 24708 4822 051 20222 | 8k2 2k7 Adj. po 4E7 2k2 | 5% 5% atm. 22k 1% 5% | 0.1W 0.1W 0.6W 0.1W |
| 3421 3422 3425 3429 3430 | 4822 051 20473 4822 116 30434 4822 051 20222 4822 051 20103 | 47k | 5% stor 470k 5% 5% 5% | 0.1W 0.1W 0.1W 0.1W |
| | | | | |

| Resistor | |
|--|-----|
| | |
| 3431 4822 051 20222 2k2 5% 0.1W | ١ |
| 3432 4822 051 20103 10k 5% 0.1W | - 1 |
| 3433 4822 051 20222 2k2 5% 0.1W | |
| 3434 4822 051 20222 2k2 5% 0.1W | - |
| 3437 4822 051 20222 2k2 5% 0.1W | |
| 3438 4822 051 20008 0E 5% 0.1W | 1 |
| 3441 4822 051 20008 0E 5% 0.1W | - |
| 3703 4822 051 20221 220E 5% 0.1W | - |
| 3704 4822 100 11348 Adj. potm. 1k | |
| 3703 4022 001 20100 1111 | |
| 3706 4822 051 20563 56k 5% 0.1W | |
| 3707 4822 051 20823 82k 5% 0.1W | |
| 3709 4822 051 20333 33k 5% 0.1W | - 1 |
| 3723 4822 051 20221 220E 5% 0.1W | 1 |
| 3724 4822 100 11348 Adj. potm. 1k | |
| 3725 4822 051 20105 1M 5% 0.1W | - 1 |
| 3726 4822 051 20563 56k 5% 0.1W | - 1 |
| 3727 4822 051 20823 82k 5% 0.1W | |
| 3729 4822 051 20333 33k 5% 0.1W | - 1 |
| 0,01 1022 001 20101 | |
| 3752 4822 051 20103 10k 5% 0.1W | |
| 3762 4822 051 20008 0E 5% 0.1W | - 1 |
| 0704 4022 001 20000 | |
| 3766 4822 051 20008 0E 5% 0.1W 3767 4822 051 20008 0E 5% 0.1W | |
| Coil | |
| | |
| 5401 4822 157 50975 1mH | |
| 5402 4822 157 50965 15μH | |
| 5403 4822 157 50965 15µH | |
| Diode Transistor | |
| 4822 130 42705 BC847 | |
| 4822 130 61233 BC857 | |
| 5322 130 61677 BC875 | |
| 4822 130 34379 BZX79-B27 | |
| 4822 130 30621 1N4148 | |
| 1.0. | |
| 6401 4822 209 31559 ST6231+RC μP SCA 2.2 | |
| 6401 4822 209 31576 ST6031 RC5 μP SCA 2.5 | 5 |
| 6402 4822 209 31617 TDA7272 Motor control | |
| 6701 4822 209 71871 TA7784P Pre-amplifier | |
| MISCELLANEOUS | |
| 1001 4822 281 11051 Double magnet | |
| 1002 4822 361 30297 Servo motor | |
| 1003 4822 361 30294 Capstan motor | |
| 1004 4822 249 30186 Playback head | |
| 1401 4822 242 70831 Ceram. resonator 4MHz | |

15

Car CD mechanism CMX-200







12 V ⊕ №

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1. SPECIFICATION

Operating voltage Operating temperature Frequency response

: 10.8 - 15.6V : -10 - 50°C

: 5 - 20,000Hz ± 3dB

Harmonic distortion

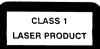
: 0.015% (1kHz)

S/N ratio

: ≥ 80dB

Channel difference Channel separation :≤ 3dB : ≥ 70dB





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4822 725 24151



PCS 64609

SCA 2.2/2.5

2. FUNCTIONAL DESCRIPTION

When the Optical pick-up block has moved completely towards the centre and the limit switch is switched on, the sled motor starts to rotate the gear in the direction of the arrow (Fig. 1).

The deck section is fixed to the chassis. Now the lock gear switch is switched on and the loading motor starts rotating to eject the CD.

3.1 SERVICE HINTS

In PLAY mode, the deck section is only connected to the chassis through the dampers to avoid it is affected by vibrations.

The lock gear is fixed in the notch of the chassis only in STOP mode (Fig. 2).

If the lock gear is not firmly fixed in the notch, the disc cannot be inserted or removed.

In that case rotate the gear near the sled motor by hand till the lock gear is fixed firmly.

- When serviceing, do not take the Optical pick-up block apart and do not adjust the APC circuit.
- In case of a defect replace the complete Optical pick-up block (including the APC pcb).
- When re-assembling, place the Sensor pcb while keeping the pin pressed to the right (Fig. 3). Fixing the Sensor pcb forcibly may cause breakage of the switch.

3.2 SERVICE TOOLS

Test CD "skew disc" 4822 701 11922 Test CD "eccentricity" 4822 701 11923

Test CD "5" & "5A"

Test CD "Audio signals 1"

4822 397 30096 4822 397 30184

4. CHECKS

Initial start-up, rafoc unit

- Insert test CD "skew-disc".
- Playback tracks 1-9 (first 20 minutes) without interruptions.

Disc drive motor and servo motor

- Insert test CD "eccentricity".
- Playback tracks 1-20 without interruptions.

Interruptions, black dots, fingerprints

- Insert test CD "5A".
- Playback tracks 9, 11-17 (prefered: 17), 18, 19 (prefered 19) without interruptions.

Specification

Check with test CD "Audio signals disc 1".

5.1 IC1 PINS

| Pin | Description | Pin | Description | Pin | Description | |
|-------|-------------------------|--------|------------------------|--------|------------------------------|-----|
| 1 | Serial data out | 18 | Audio mute control out | 40 | Clock in | |
| 2 | Clock out | 19 | PLL control out | 41 | Serial data out | |
| 3 | Latch out | 20 | Clock out | 42 | Reserved | |
| 4 | Loading start in | 21 | Reset out | 43 | Serial data in | |
| | 8cm disc eject compl in | 22 | Laser control out | 44 | Ground | |
| 5 | Disc chucking compl in | 23 | 8cm disc gain ctl out | 45-48 | Reserved | |
| 6 | Chucking start out | 24, 25 | Ground | 49 | Sound ctl (tm) out | |
| 7 | 8/12cm disc detect in | 26, 28 | VDD | 50-52 | Ground | |
| 8 | Lock gear detect in | 27, 39 | Chip select in | 53-56 | Tm (test mode) setting | |
| 9 | Disc sensor in | 29, 30 | Crystal | 57 | Reserved | |
| 10,11 | Ground | 31 | Reset in | 59 | Subcode sync S | |
| 12 | Frame sync lock det in | 32 | Plunger control in | | sgnl in | |
| 13 | SENSE in | 33, 34 | Loading motor ctl out | 60 | Signal request out | |
| 1-1 | Focus OK in | 35 | Test mode control out | 01, 02 | Sied motor control out | |
| 15 | Temp detection out | 36 | Error ctl (tm) out | 63 | Subcode Q signal in | 80 |
| 16 | Digital mute ctl out | 37 | Reserved | 64 | Clock (subcode Q) out | 990 |
| 17 | Emphasis control out | 38, 58 | VDD | | 2.22 (22200d0 Q) 0dt | 74 |
| | • | • | | | | S |

Chassis

Chassis

Limit switch

Lock gear A

Lock gear B

Lock gear B

Fig. 1

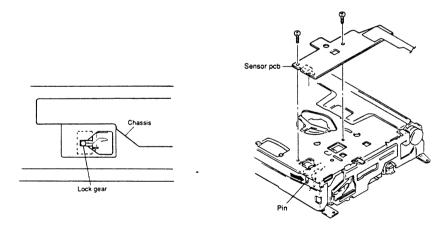


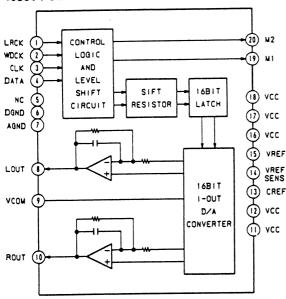
Fig. 2

Fig. 3

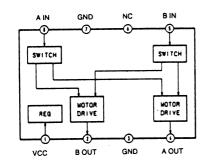
CS 74 0

5.2 IC BLOCKDIAGRAMS

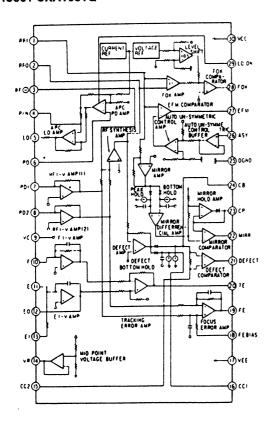
IC301 PCM66P



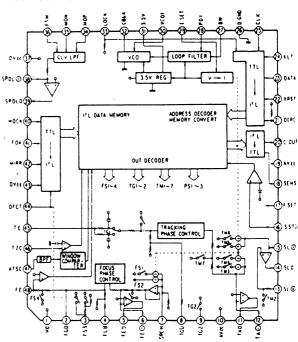
IC403 BA6208F

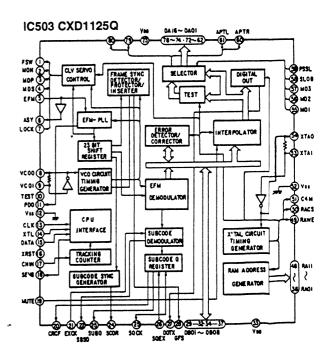


IC501 CXA1081Q

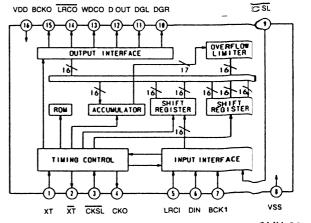


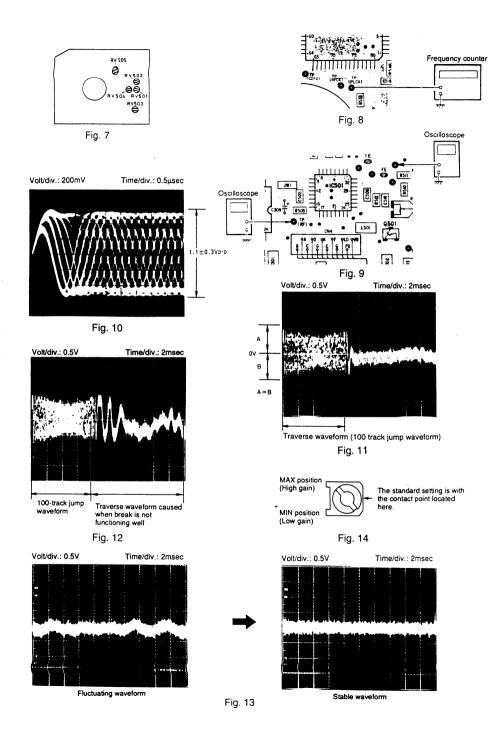
IC502 CXA1082BQ





IC505CXD1316D





6.1 MECHANICAL ADJUSTMENTS

Turntable height

- Loosen the fixing screws (2x).
- Adjust the height as shown in Fig. 4.

Lock gears A and B

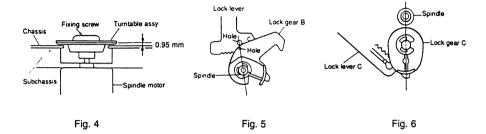
As adjustment of lock gears A and B is the same, only the one of lock gear B is described

Rotate the gear near the sled motor manually to move the Optical block towards the outside

- until the lock gear is disengaged from the notch of the chassis.
- Adjust the lock gear as shown in Fig. 5.

Lock gear C

- Rotate the gear near the sled motor manually to move the Optical block towards the outside until the lock gear is disengaged from the notch of the chassis.
- Adjust the lock gear as shown in Fig. 6.



6.2 ELECTRICAL ADJUSTMENTS

PLL free-run frequency

- Open solder bridge "EFM" (copper track 8-IC501).
- Connect frequency counter to test point "PLCK" (Fig. 8).
- Adjust RV505 to 4.3118 4.3318MHz.

Focus offset

- Connect oscilloscope to test point "RF" (Fig. 9).
- Load a disc and set mode to PLAY.
- Adjust RV502 to max. height and good shape of wave form (Fig. 10). Mark "O" to be clearly distinguished at the centre).

Tracking offset

- Connect oscilloscope to test point "TE"
- Load a disc, set mode to PLAY and press a SEARCH button.
- Adjust RV501 to max. symmetry of traverse wave form (Fig. 11).
 - Note: Traverse wave form: tracking error wave form observed when track is traversed.

Tracking gain

This adjustment is only necessary after replacing the Optical block or RV503.

In that case first adjust the focus and tracking offset (see above). The gain is too low: When music is selected by pressing a SEARCH button, the tracking jump wave form is not focused completely and the music selection is delayed (break function does not work well). See Fig. 12. The gain is too high: Noise, due to scratches and dust, is heard and the operation becomes unstable. If this is so, proceed as follows: Connect oscilloscope to test point "TE" (Fig. 9). Load a disc and set mode to PLAY.

Adjust RV503 to a stable wave form (Fig. 13)

Focus gain

This adjustment is only necessary after replacing the Optical block or RV504. The gain is too low: Focus does not function and no music is selected. The gain is too high: Noise, caused by scratches and dust, is heard and the operation becomes unstable. If this is so, proceed as follows:

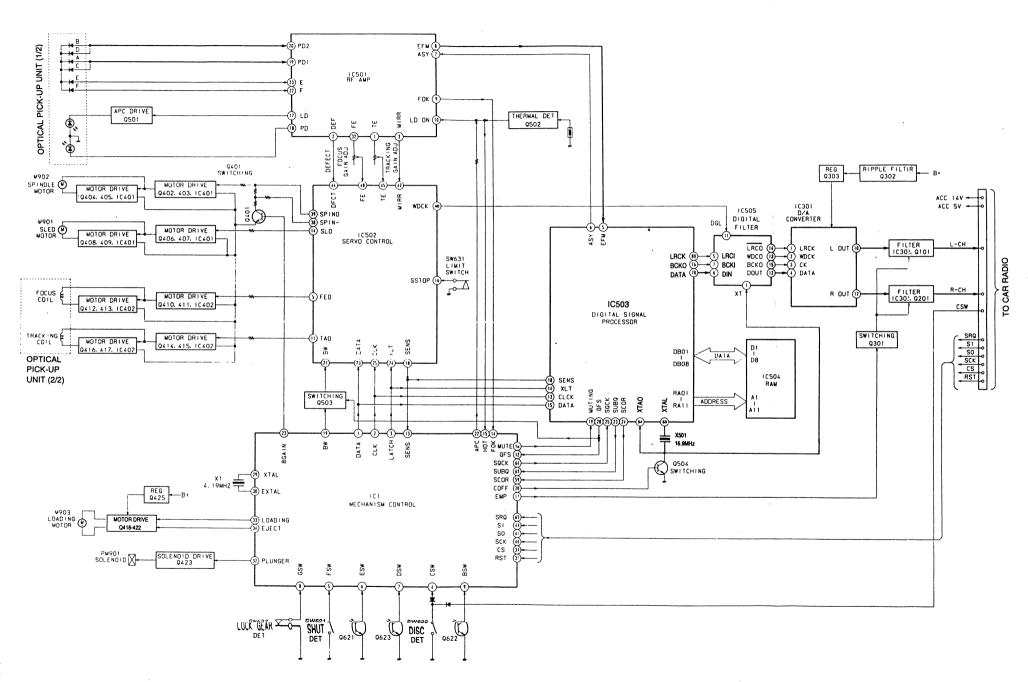
- Set RV504 to the standard position (Fig. 14).
 - If operation noise (white noise type), caused by the double-axis device (lens section of the Optical block) is abnormally loud, set RV504 slightly counter-clockwise.

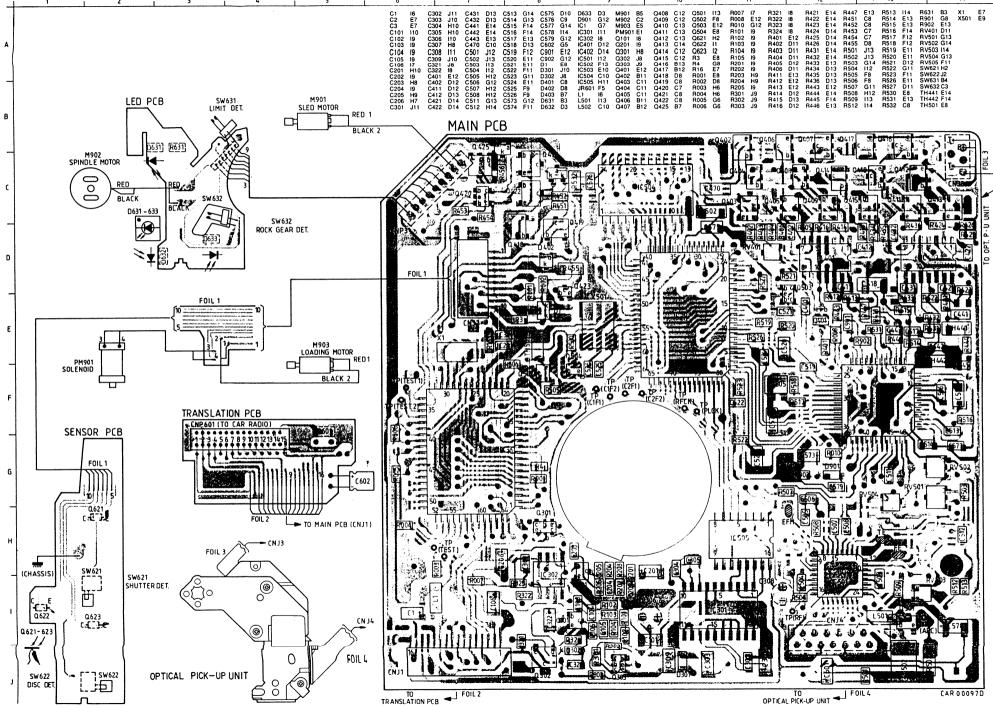
74

PCS 74 070

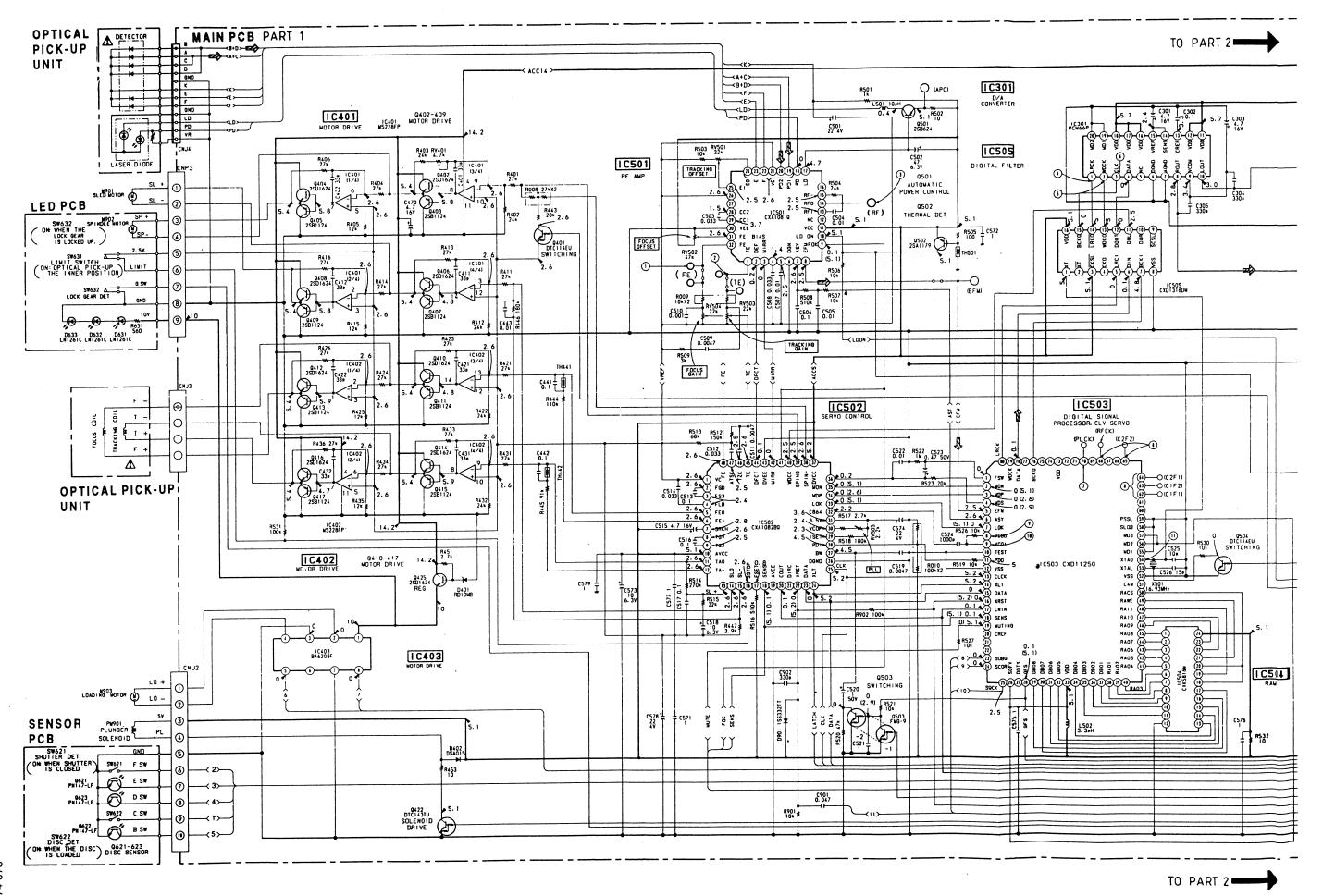
CMX-200

7. BLOCKDIAGRAM

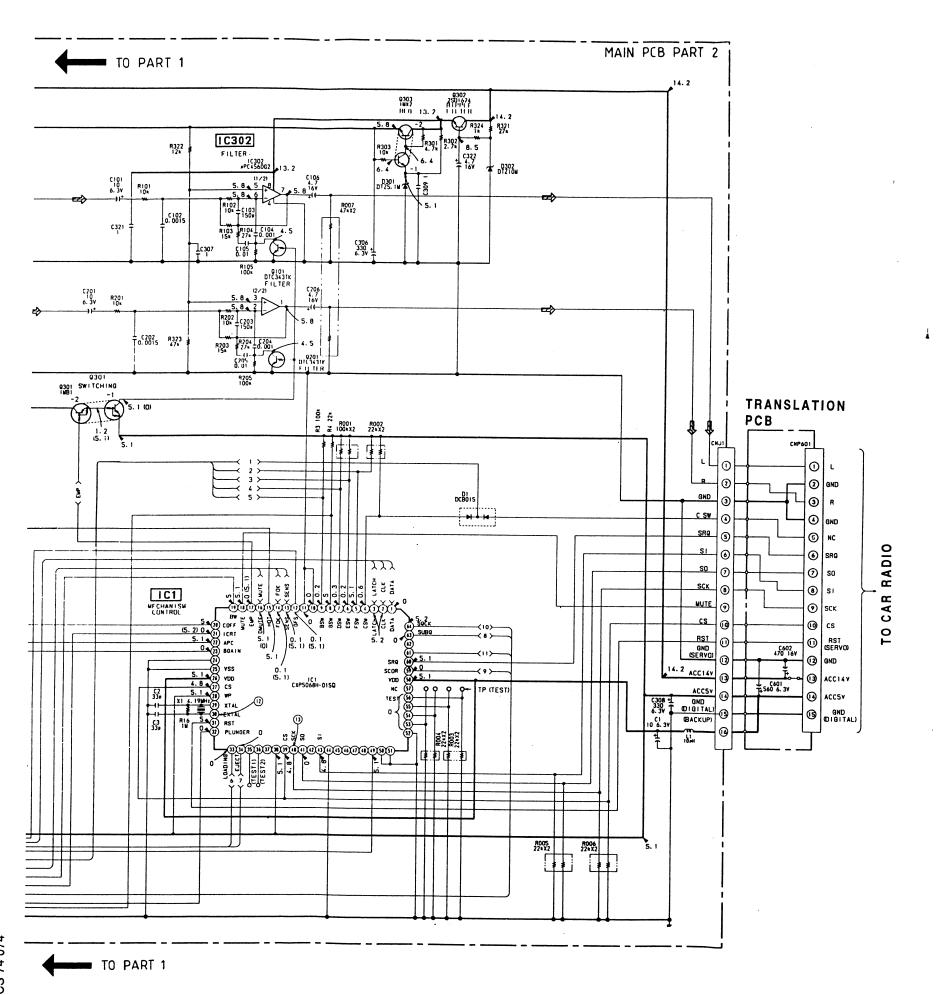




9. CIRCUIT DIAGRAM I



10. CIRCUIT DIAGRAM II



11. MEASURING CONDITIONS

- Supply voltage: 14.4V DC

 Voltages and wave forms are DC with respect to ground. No signal applied.

...V : STOP (...V) : PLAY.

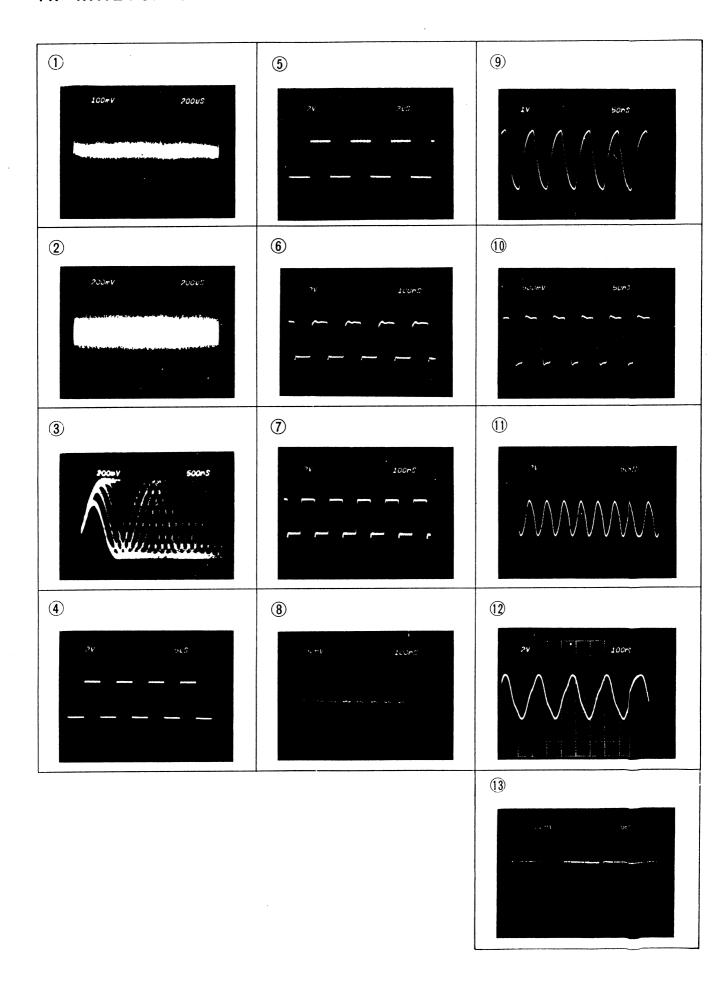
- Voltages are measured with an EVM, input impedance $10M\Omega$.

Circled numbers refer to wave forms, measured with an oscilloscope.

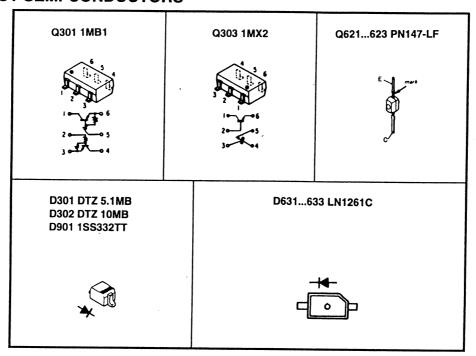
Position of switches:

| Item | Function | Position |
|-------|--------------|----------|
| SW621 | Shutter det. | Off |
| SW622 | Disc det. | Off |
| SW631 | Limit | On |
| SW632 | Lock gear | On |

11. WAVE FORMS



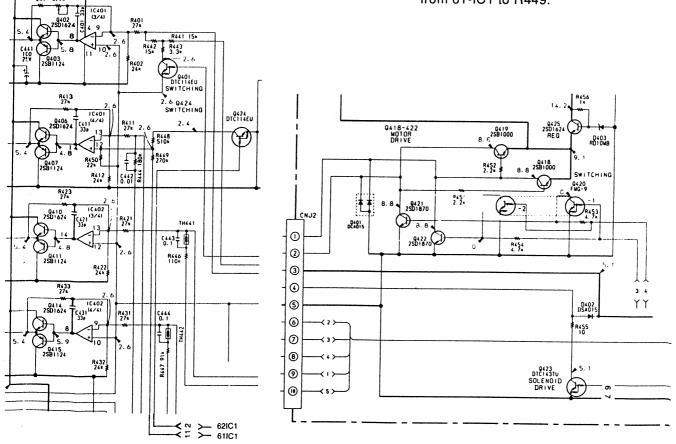
12. LEAD LAYOUT SEMI-CONDUCTORS



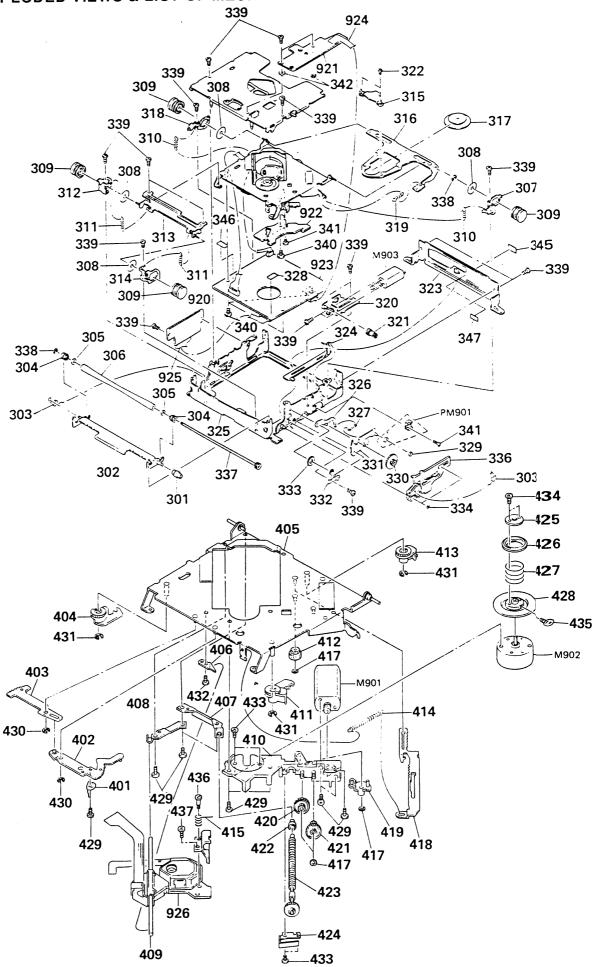
13. MODIFICATIONS IN PRODUCTION

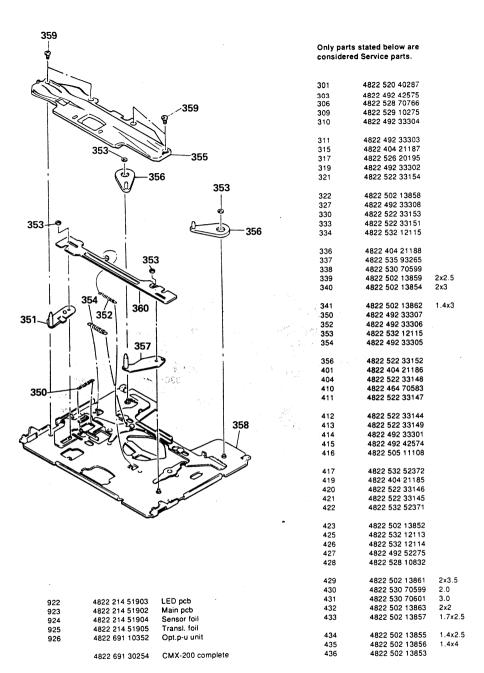
During production the loading motor drive circuit has been redesigned into an IC-version. Circuit diagram I (page 7) shows the changed version. The original circuit is shown below. The layout of the main pcb shows the original version. The list of electrical parts shows the original parts.

Q424, R448, R449 have been added. Also, some components have been renumbered. Refer to modified cicuit diagram below. This modification is shown neither in the layout of the main pcb, nor in the list of electrical parts. C901, 902, D902, R901, 902 have been added to 22-IC502. Original circuit: 22-IC502 connected to 16-IC503/21-IC1, connection 11 from 61-IC1 to R449.



14. EXPLODED VIEWS & LIST OF MECHANICAL PARTS





15. List of electrical parts

| ⊣⊢ | | | | ⊣⊢ | | | |
|--------------|----------------------------------|------------------------------|---|--------------|----------------------------------|--------------------------------|-------|
| C1 | 4822 124 23941 | 10uF 20% 6.3V | | C518 | 4822 124 23941 | 10 F 200/ C 21/ | |
| C2 | 4822 126 11892 | 33pF 5% 50V | | C518 | 4822 124 23941 | 10µF 20% 6.3V 4.7nF 10% 50V | |
| C3 | 4822 126 11892 | 33pF 5% 50V | | C520 | 4822 124 23944 | 1µF 20% 50V | |
| C101 | 4822 124 23941 | 10μF 20% 6.3V | | C521 | 4822 126 11903 | 1μF % 16V | |
| C102 | 4822 126 11896 | 1.5nF 10% 50V | | C522 | 4822 126 11898 | 10nF 10% 25V | |
| | | | | | | 10.11 1070 201 | |
| C103 | 4822 126 11893 | 150pF 5% 50V | | C523 | 4822 124 23943 | 0.47uF 20% 50V | |
| C104 | 4822 126 11895 | 1nF 10%50V | | C524 | 4822 126 11895 | 1nF 10% 50V | |
| C105 | 4822 126 11898 | 10nF 10% 25V | | C525 | 4822 126 11891 | 4pF 25% 50V | |
| C106 | 4822 124 23942 | 4.7μF 20% 16V | | C526 | 4822 126 11891 | 4pF 25% 50V | |
| C201 | 4822 124 23941 | 10μF 20% 6.3V | | C527 | 4822 126 11892 | 33pF 5% 50V | |
| 0000 | 1000 100 1100 | | | | | | |
| C202 C203 | 4822 126 11896 | 1.5nF 10% 50V | | C550 | 4822 126 11903 | 1μF % 16V | |
| C203 | 4822 126 11893 | 150pF 5% 50V | | C571 | 4822 126 11903 | 1μF % 16V | |
| C204 | 4822 126 11895 4822 126 11898 | 1nF 10% 50V 10nF 10% 25V | | C572 | 4822 126 11903 | 1µF % 16V | |
| C206 | 4822 124 23942 | 4.7µF 20% 16V | | C573 C574 | 4822 124 23941 | 10µF 20% 6.3V | |
| OLUU | 4022 124 23342 | 4.7µ1 20.6 10V | | C5/4 | 4822 124 23939 | 22μF 20% 4V | |
| C301 | 4822 124 11247 | 4.7uF 10% 16V | | C575 | 4822 126 11903 | 1μF % 16V | |
| C302 | 4822 126 11902 | 100nF 10% 25V | | C576 | 4822 126 11903 | 1uF % 16V | |
| C303 | 4822 124 11247 | 4.7µF 10% 16V | | C577 | 4822 126 11903 | 1μF % 16V | |
| C304 | 4822 126 11894 | 330pF 10% 50V | | C578 | 4822 124 23939 | 22µF 20% 4V | |
| C305 | 4822 126 11894 | 330pF 10% 50V | | C579 | 4822 126 11903 | 1µF % 16V | |
| | | | | C580 | 4822 126 11895 | 1nF 10% 50V | |
| C306 | 4822 124 23945 | 330µF 20% 6.3V | | | | | |
| C307 | 4822 126 11903 | 1μF % 16V | | - | | | |
| C308 | 4822 124 23945 | 330μF 20% 6.3V | | | | | |
| C309 | 4822 126 11903 | 1μF % 16V | | JR601 | 4822 116 83416 | Jumper 0E | 10411 |
| C321 | 4822 126 11903 | 1μF % 16V | | JR902 | 4822 116 83451 | Jumper 0E | |
| C322 | 4922 124 22042 | 4.7E 200/ 161/ | | R3 | 4822 116 83432 | 100k 5% 1/16W | 14.42 |
| C401 | 4822 124 23942 4822 126 11892 | 4.7μF 20% 16V 33pF 5% 50V | | R4 | 4822 116 83429 | 22k 5% 1/16W | |
| C402 | 4822 126 11892 | 33pF 5% 50V | | R16 | 4822 116 83435 | 1M 5% 1/16W | 1740 |
| C411 | 4822 126 11892 | 33pF 5% 50V | | R001 | 4000 444 00054 | 4001 NETHODIC | |
| C412 | 4822 126 11892 | 33pF 5% 50V | | R002 | 4822 111 92054 4822 111 92051 | 100k NETWORK | 16 77 |
| | * 1, | | | R002 | 4822 111 92051 | 22k NETWORK | |
| C421 | 4822 126 11892 | 33pF 5% 50V | | R004 | 4822 111 92051 | 22k NETWORK 22k NETWORK | 1,14 |
| C422 | 4822 126 11892 | 33pF 5% 50V | | R005 | 4822 111 92051 | 22k NETWORK | |
| C431 | 4822 126 11892 | 33pF 5% 50V | | | | 22 | - |
| C432 | 4822 126 11892 | 33pF 5% 50V | | R006 | 4822 111 92051 | 22k NETWORK | |
| C441 | 4822 126 11902 | 100nF 10% 25V | | R007 | 4822 111 92053 | 47k NETWORK | |
| 0440 | | | | R008 | 4822 111 92052 | 27k NETWORK | |
| C442 C443 | 4822 126 11902 | 100nF 10% 25V | | R009 | 4822 111 92049 | 10k NETWORK | |
| C470 | 4822 126 11898 | 10nF 10% 25V | | R010 | 4822 111 92054 | 100k NETWORK | |
| C501 | 4822 124 23942 4822 124 23939 | 4.7μF 20% 16V 22μF 20% 4V | | D | 4000 445 55 55 | | |
| C502 | 4822 124 11246 | 47μF 20% 6.3V | - | R101 | 4822 116 83439 | 10k 1% 1/16W | |
| | .322 .27 .1240 | , 2070 0.04 | | R102 R103 | 4822 116 83439 | 10k 1% 1/16W | |
| C503 | 4822 126 11901 | 33nF 10% 25V | | R103 | 4822 116 83442 4822 116 83446 | 15k 1% 1/16W | |
| C504 | 4822 126 11899 | 2.7nF 10% 50V | | R105 | 4822 116 83446 | 27k 1% 1/16W 100k 5% 1/16W | |
| C505 | 4822 126 11898 | 10nF 10% 25V | | .,,,,,, | .322 110 03432 | 100K 3/0 1/10VV | |
| C506 | 4822 126 11902 | 100nF 10% 25V | | R201 | 4822 116 83419 | 10k 1% 1/16W | |
| C507 | 4822 126 11898 | 10nF 10% 25V | | R202 | 4822 116 83419 | 10k 1% 1/16W | |
| | | | | R203 | 4822 116 83442 | 15k 1% 1/16W | |
| C508 | 4822 126 11901 | 33nF 10% 25V | | R204 | 4822 116 83446 | 27k 1% 1/16W | |
| C509 | 4822 126 11895 | 1nF 10% 50V | | R205 | 4822 116 83432 | 100k 5% 1/16W | |
| C510 C511 | 4822 126 11895 | 1nF 10% 50V | | | | | |
| C511 | 4822 126 11897 4822 126 11901 | 4.7nF 10% 50V | | R301 | 4822 116 83426 | 4.7k 5% 1/16W | |
| 0312 | +022 120 11901 | 33nF 10% 25V | | R302 | 4822 116 83424 | 2.7k 5% 1/16W | |
| C513 | 4822 126 11902 | 100nF 10% 25V | | R303 | 4822 116 83439 | 10k 1% 1/16W | |
| C514 | 4822 126 11901 | 33nF 10% 25V | | R321 | 4822 116 83446 | 27k 1% 1/16W | |
| C515 | 4822 124 11247 | 4.7µF 10% 16V | | R322 | 4822 116 83441 | 12k 1% 1/16W | |
| C516 | 4822 126 11902 | 100nF 10% 25V | | R323 | 4822 116 83431 | 47k 5% 1/16W | |
| C517 | 4822 126 11902 | 100nF 10% 25V | | R324 | 4822 116 83422 | 47k 5% 1/16W 1k 5% 1/16W | (|
| | | | | R401 | 4822 116 83446 | 27k 1% 1/16W | |
| | | | | | 0 00 00 00 | = | |

| \rightarrow | | | -0- | | |
|---------------|----------------|------------------|------------|----------------------------------|------------------------|
| | | | | | |
| R402 | 4822 116 83443 | 24k 1% 1/16W | R526 | 4822 116 83439 | 10k 1% 1/16W |
| R403 | 4822 116 83443 | 24k 1% 1/16W | R527 | 4822 116 83439 | 10k 1% 1/16W |
| R404 | 4822 116 83446 | 27k 1% 1/16W | R530 | 4822 116 83439 | 10k 1% 1/16W |
| R405 | 4822 116 83441 | 12k 1% 1/16W | R531 | 4822 116 83432 | 100k 5% 1/16W |
| R406 | 4822 116 83446 | 27k 1% 1/16W | R532 | 4822 116 83418 | 10E 5% 1/8W |
| | | | ľ | | |
| R411 | 4822 116 83446 | 27k 1% 1/16W | R550 | 4822 116 83435 | 1M 5% 1/16W |
| R412 | 4822 116 83443 | 24k 1% 1/16W | R631 | 4822 116 83415 | 560E 5% 1/8W |
| R413 | 4822 116 83446 | 27k 1% 1/16W | R997 | 4822 116 83447 | 27k 5% 1/16W |
| R414 | 4822 116 83446 | 27k 1% 1/16W | R998 | 4822 116 83452 | 30k 5% 1/16W |
| R415 | 4822 116 83441 | 12k 1% 1/16W | R999 | 4822 116 83449 | 330k 5% 1/16W |
| | | | | | |
| R416 | 4822 116 83446 | 27k 1% 1/16W | RV401 | 4822 100 30168 | 4.7k Adj.potm. |
| R421 | 4822 116 83446 | 27k 1% 1/16W | RV501 | 4822 100 30165 | 47k Adj.potm. |
| R422 | 4822 116 83443 | 24k 1% 1/16W | RV502 | 4822 100 30166 | 47k Adj.potm. |
| R423 | 4822 116 83446 | 27k 1% 1/16W | RV503 | 4822 100 30169 | 2k Adj.potm. |
| R424 | 4822 116 83446 | 27k 1% 1/16W | RV504 | 4822 100 30169 | 22k Adj.potm. |
| 11727 | 4022 110 00440 | 27 1 70 1/1044 | 111004 | 4022 100 30103 | ZZR Adj. politi. |
| R425 | 4822 116 83441 | 12k 1% 1/16W | RV505 | 4822 100 30167 | 2.2k Adi notm |
| | | | | | 2.2k Adj.potm. |
| R426 | 4822 116 83446 | 27k 1% 1/16W | TH441 | 4822 111 92055 | Thermistor |
| R431 | 4822 116 83446 | 27k 1% 1/16W | TH442 | 4822 111 92055 | Thermistor |
| R432 | 4822 116 83443 | 24k 1% 1/16W | TH501 | 4822 111 92055 | Thermistor |
| R433 | 4822 116 83446 | 27k 1% 1/16W | | | |
| | | | | | |
| R434 | 4822 116 83446 | 27k 1% 1/16W | 1 | | |
| R435 | 4822 116 83441 | 12k 1% 1/16W | L1 | 4822 157 63598 | 10µH |
| R436 | 4822 116 83446 | 27k 1% 1/16W | L501 | 4822 157 63598 | 10µH |
| R443 | 4822 116 83438 | 20k 5% 1/16W | L502 | 4822 157 63597 | 3.3µH |
| R444 | 4822 116 83445 | 110k 5% 1/16W | | | |
| | | | | | |
| R445 | 4822 116 83444 | 91k 5% 1/16W | → + | | |
| R446 | 4822 116 83433 | 180k 5% 1/16W | D1 | 4822 130 82816 | DCB015 |
| R447 | 4822 116 83425 | 3.9k 5% 1/16W | 1 | | 1 |
| R451 | 4822 116 83423 | 2.2k 5% 1/16W | D301 | 4822 130 82817 | DTZ5.1B |
| R452 | | | D302 | 4822 130 82818 | DTZ10B |
| H452 | 4822 116 83423 | 2.2k 5% 1/16W | D401 | 4822 130 82815 | DCA015 |
| D450 | 4000 440 00400 | 4.70.50/ 4/4004/ | D402 | 4822 130 82814 | DSA015 |
| R453 | 4822 116 83426 | 4.7k 5% 1/16W | 1 | | |
| R454 | 4822 116 83426 | 4.7k 5% 1/16W | D403 | 4822 130 82813 | RD10M |
| R455 | 4822 116 83418 | 10E 5% 1/8W | D631 | 4822 130 82811 | LED LN1261C |
| R456 | 4822 116 83422 | 1k 5% 1/16W | D632 | 4822 130 82811 | LED LN1261C |
| R502 | 4822 116 83418 | 10E 5% 1/8W | D633 | 4822 130 82811 | LED LN1261C |
| | | | 1 | | |
| R503 | 4822 116 83439 | 10k 1% 1/16W | -60 | | |
| R505 | 4822 116 83421 | 100E 5% 1/16W | - | | ļ |
| R506 | 4822 116 83439 | 10k 1% 1/16W | Q101 | 4822 130 62893 | DTC343TK |
| R507 | 4822 116 83439 | 10k 1% 1/16W | Q201 | 4822 130 62893 | DTC343TK |
| R508 | 4822 116 83437 | 510k 5% 1/16W | Q301 | 4822 130 62895 | |
| | | | | | IMB1 |
| R509 | 4822 116 83436 | 3k 5% 1/16W | Q302 | 4822 130 62888 | 2SD1950 |
| R510 | 4822 116 83427 | 5.6k 5% 1/16W | Q303 | 4822 130 62896 | IMX2 |
| | | | 1 | | |
| R511 | 4822 116 83427 | 5.6K 5% 1/16W | Q401 | 4822 130 62892 | DTC114EU |
| R512 | 4822 116 83434 | 220k 5% 1/16W | Q402 | 4822 130 62884 | 2SD1624-T |
| R513 | 4822 116 83428 | 18k 5% 1/16W | Q403 | 4822 130 62885 | 2SB1124-T |
| | | | Q404 | 4822 130 62884 | 2SD1624-T |
| R514 | 4822 116 83448 | 270k 5% 1/16W | Q405 | 4822 130 62885 | 2SB1124-T |
| R515 | 4822 116 83429 | 22k 5% 1/16W | 1 | | |
| R516 | 4822 116 83437 | 510k 5% 1/16W | Q406 | 4822 130 62884 | 2SD1624-T |
| R517 | 4822 116 83424 | 2.7k 5% 1/16W | Q407 | 4822 130 62885 | 2SB1124-T |
| R518 | 4822 116 83433 | 180k 5% 1/16W | Q408 | 4822 130 62884 | 2SD1624-T |
| | | | Q+00 | 4822 130 62884 4822 130 62885 | 2501624-1 2501124-T |
| R519 | 4822 116 83439 | 10k 1% 1/16W | Q410 | 4822 130 62884 | 2SD1624-T |
| R520 | 4822 116 83431 | 47k 5% 1/16W | 1 | | 20010211 |
| R521 | 4822 116 83439 | 10k 1% 1/16W | | 1000 155 555 | 00D4404 T |
| R522 | | | Q411 | 4822 130 62885 | 2SB1124-T |
| | 4822 116 83435 | 1M 5% 1/16W | Q412 | 4822 130 62884 | 2SD1624-T |
| R523 | 4822 116 83438 | 20k 5% 1/16W | Q413 | 4822 130 62885 | 2SB1124-T |
| | | | Q414 | 4822 130 62884 | 2SD1624-T |
| | | | 1 | | |

| | -€3 | | | T |
|---|--------------|--|---|----------|
| | Q415 | 4822 130 62885 | 2SB1124-T | |
| | Q416 | 4822 130 62884 | 2SD1624-T | - |
| | Q417 | 4822 130 62885 | 2SB1124-T | |
| | Q418 | 4822 130 62889 | | |
| | | 4822 130 62889 | | - |
| | | | | - |
| | 0420 | 4822 130 62894 4822 130 63617 4822 130 63617 4822 130 61908 4822 130 62884 | ENC 0 | 1 |
| | 0421 | 4022 130 02094 | F 11G-9 | - |
| | 0421 | 4022 130 03017 | 2501870 | 1 |
| | 0422 | 4022 130 03017 | 2501870 | |
| | 0423 | 4822 130 61908 | D1C1431U | |
| | Q425 | 4822 130 62884 | 2SD1624-T | |
| | | | | |
| | Q501 | 4822 130 62887 | 2\$3624 | |
| | Q502 | 4822 130 62891 | 2SA1179 | |
| | Q503 | 4822 130 62894 | | - |
| | Q504 | 4822 130 62892 | DTC114EU | |
| | Q505 | 4822 130 61908 | DTC143TU | |
| | | | | |
| | Q621 | 4822 130 62882 | PN147-FL | |
| | Q622 | 4822 130 62882 4822 130 62882 | PN147-FL | |
| | Q623 | 4822 130 62882 | PN147-FL | |
| | | | | |
| | | | | 1 |
| | 101 | 4000 000 0055 | OBVERNOUS AND T | |
| | IC1 | 4822 209 30566 | | 1 |
| | IC301 | 4822 209 30029 | PCM66P D/A converter | 1 |
| | IC302 | 4822 209 30568 | NJM4560M Dig. filter M5228FP Motor drive | ı |
| | IC401 | 4822 209 30567 | M5228FP Motor drive | 1 |
| | IC402 | 4822 209 30567 | M5228FP Fo/Tr servo | |
| | 10504 | 4000 000 04070 | 0.44.44.4 | 1 |
| | 10501 | 4822 209 61379 | CXA1081Q RF Amp. | 1 |
| | | 4822 209 61381 | CXA1082BQ Servo ctl | 1 |
| | | 4822 209 30565 | | 1 |
| | 10505 | 4822 209 32926 | SM5807ES Dig. filter | |
| _ | Miscella | ineous | | \dashv |
| | | | | |
| | CNJ1 | 4822 267 51124 | 16p brown | 1 |
| | CNJ1 CNJ2 | 4822 267 51123 4822 267 41019 | 10p brown | 1 |
| | CIVUS | 4822 267 41019 | 5p white | 1 |
| | CNJ4 | 4822 267 51125 4822 267 51122 | 13p white | 1 |
| | | | 9c white | |
| | CNP601 | 4822 265 41156 | 15p | 1 |
| | | | | |
| | M901 | 4822 361 30375 | SLED motor | |
| | M902 | 4822 361 30376 | Turntable motor | |
| | | 4822 361 30374 | Loading motor | |
| | | 4822 281 50166 | Plunger motor | |
| | SW621 | 4822 276 13168 | Shutter detector | |
| | | | | 1 |
| | SW622 | 4822 276 13168 | Disc detector | 1 |
| | SW631 | 4822 271 30762 | Limit detector | 1 |
| | | 4822 271 30762 | Rock gear detector | 1 |
| | X1 | 4822 242 81008 | Ceram resonator 4.19MHz | |
| | X501 | 4822 242 81004 | Crystal 16.93MHz | 1 |
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PCS 74 077

22DC982/62E - 22DC962/62E



Car Systems Service

Service Information

Corrections to the Service Manual 4822 725 24323

Pages 21 to 23 Electrical Partslist 4822 122 32916 2750 22nF 10% X7R 63V 2764 4822 122 32916 22nF 10% X7R 63V 3750 4822 051 20104 100K 5% 0,1W 3756 4822 051 20562 5K6 5% 0,1W 3757 4822 051 20393 39K 5% 0,1W 3758 4822 051 20393 39K 5% 0.1W 3762 4822 116 52186 22Ω 5% 0,5W

> 7750 4822 209 31373 IC L4949

Page 12-12a Radio PCB Part 2 In the upper side of the schematic diagram, do not take in acount the part "radio PCB part 3" (also the corresponding parts in the PCB layout, stated with a ""), not used in /62E versions.

These parts are only used in 982/62B and 962/62B, service manual 4822 725 24322.

1993-07-13



